

FIG. 1

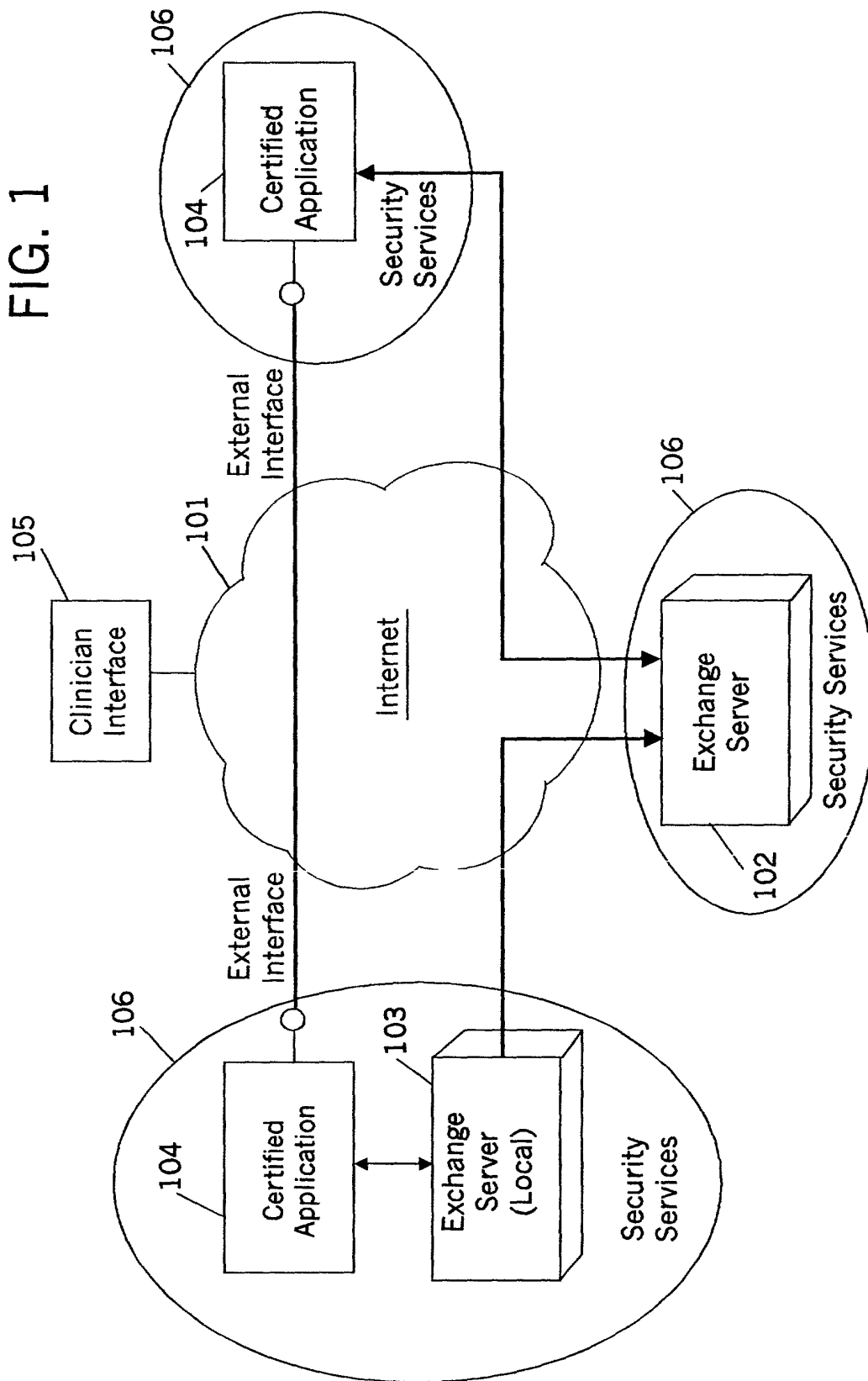
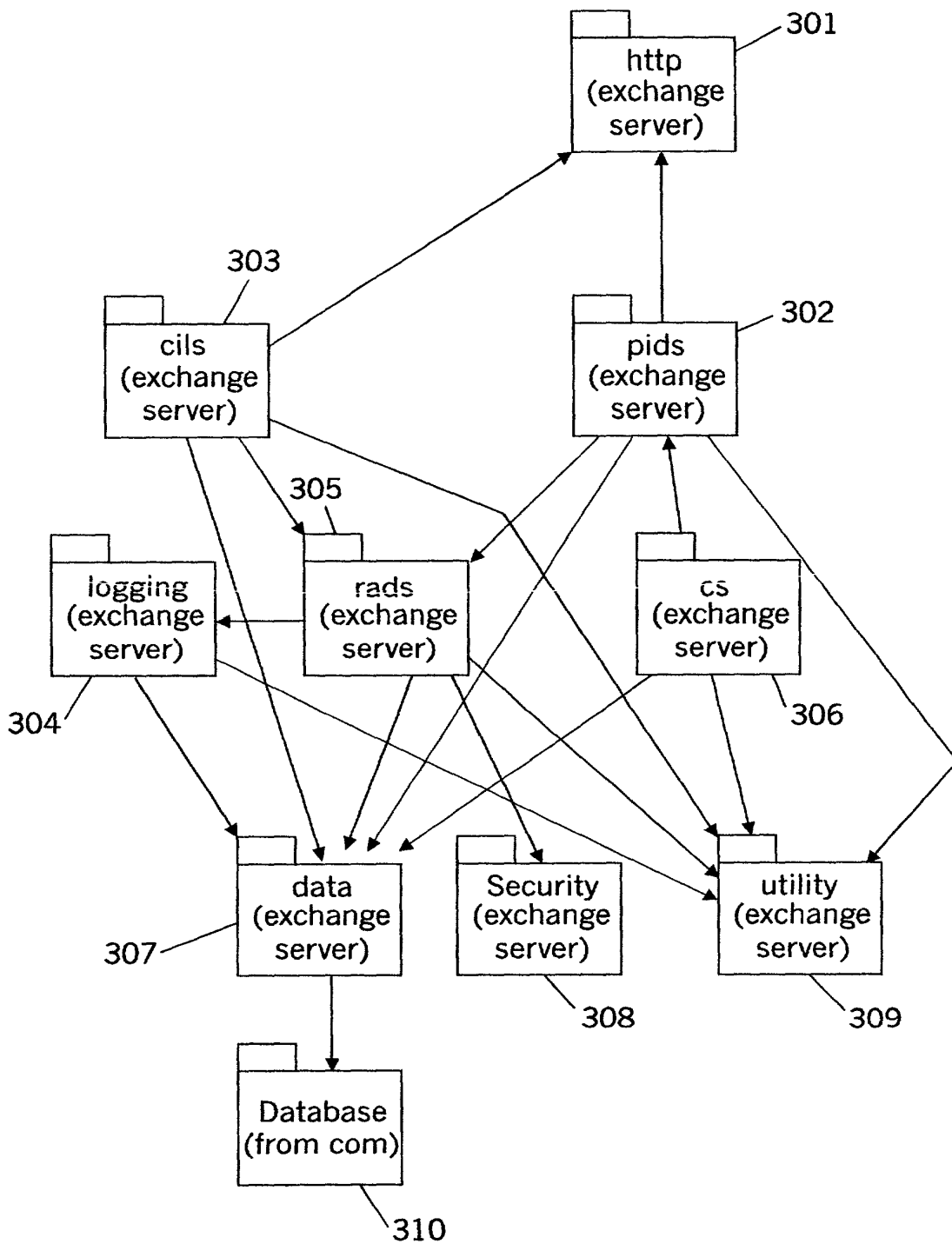


FIG. 2

Application Interface <u>212</u>	Clinician Interface <u>213</u>	Administration Interface <u>214</u>
Security Layer <u>211</u>		
Common Interface Layer <u>210</u>		
Interoperability/Communication Infrastructure <u>209</u>		
Correlation System <u>201</u>	Person ID Service <u>202</u>	Clinical Information Locator Service <u>203</u>
Resource Access Description Service <u>204</u>	Systems Administration & Monitoring <u>205</u>	Workflow and Notification <u>206</u>
Cache Management <u>207</u>	Database <u>208</u>	

FIG. 3



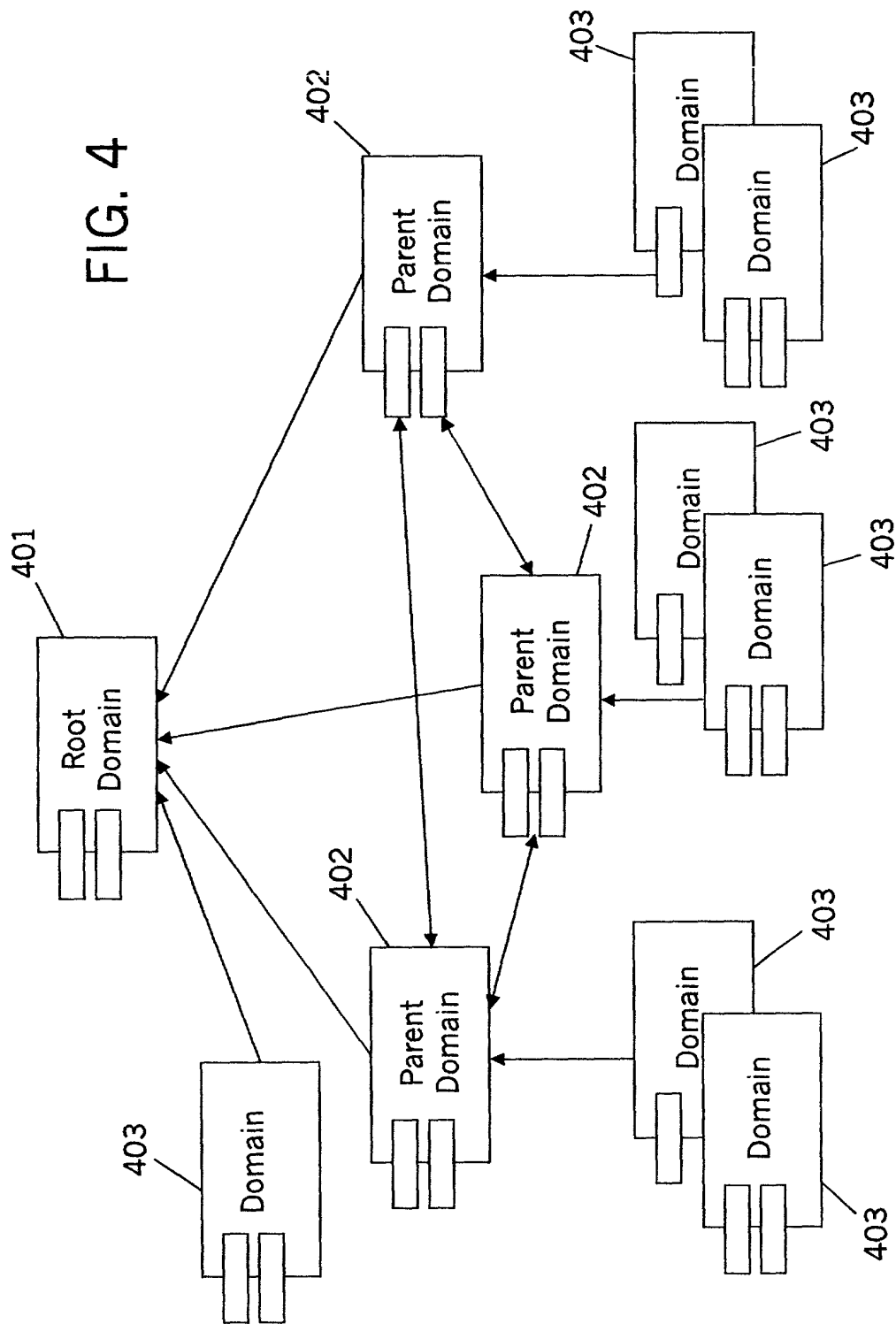


FIG. 5

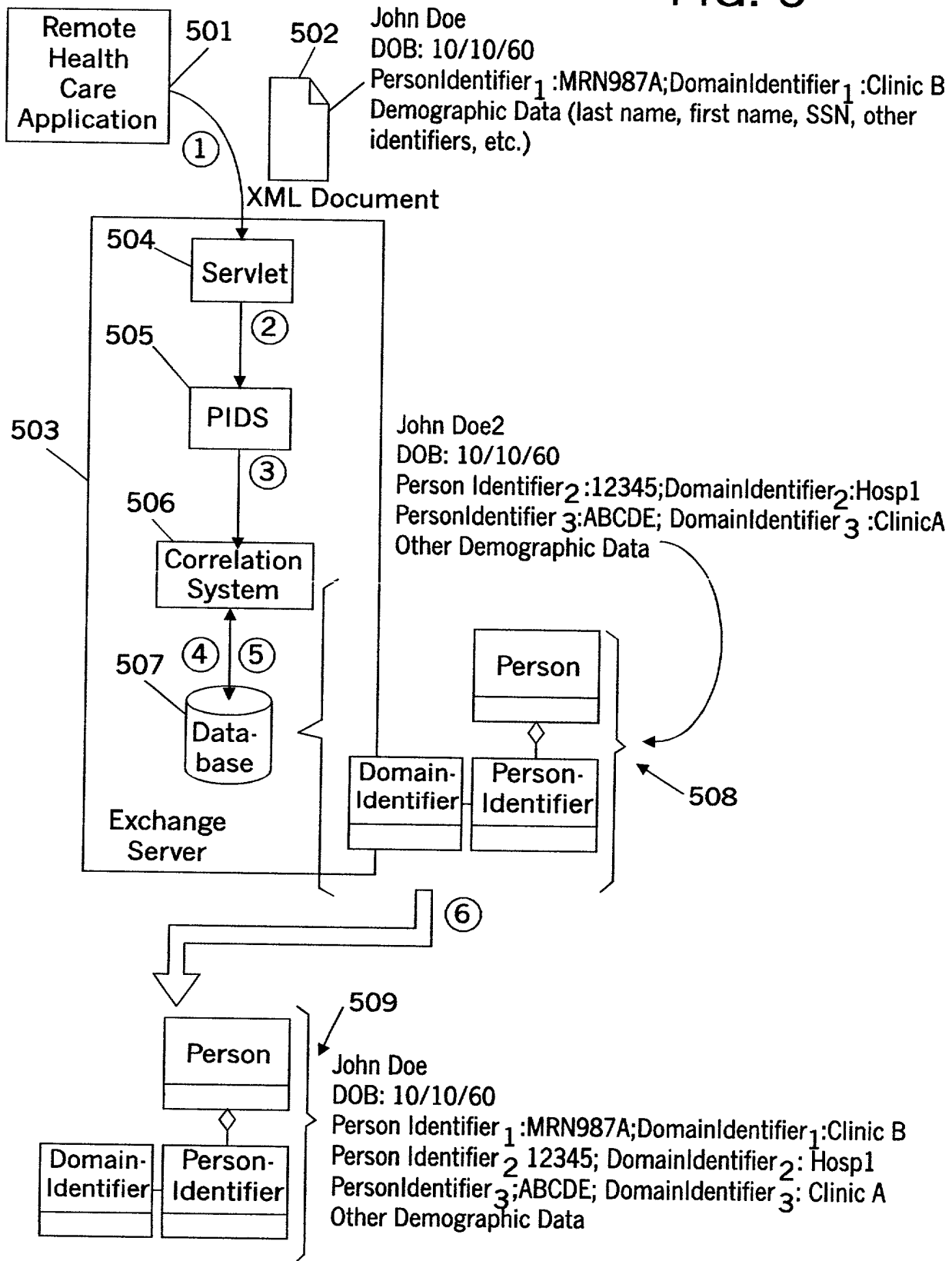


FIG. 6A

FIG. 6

FIG. 6A

FIG. 6B

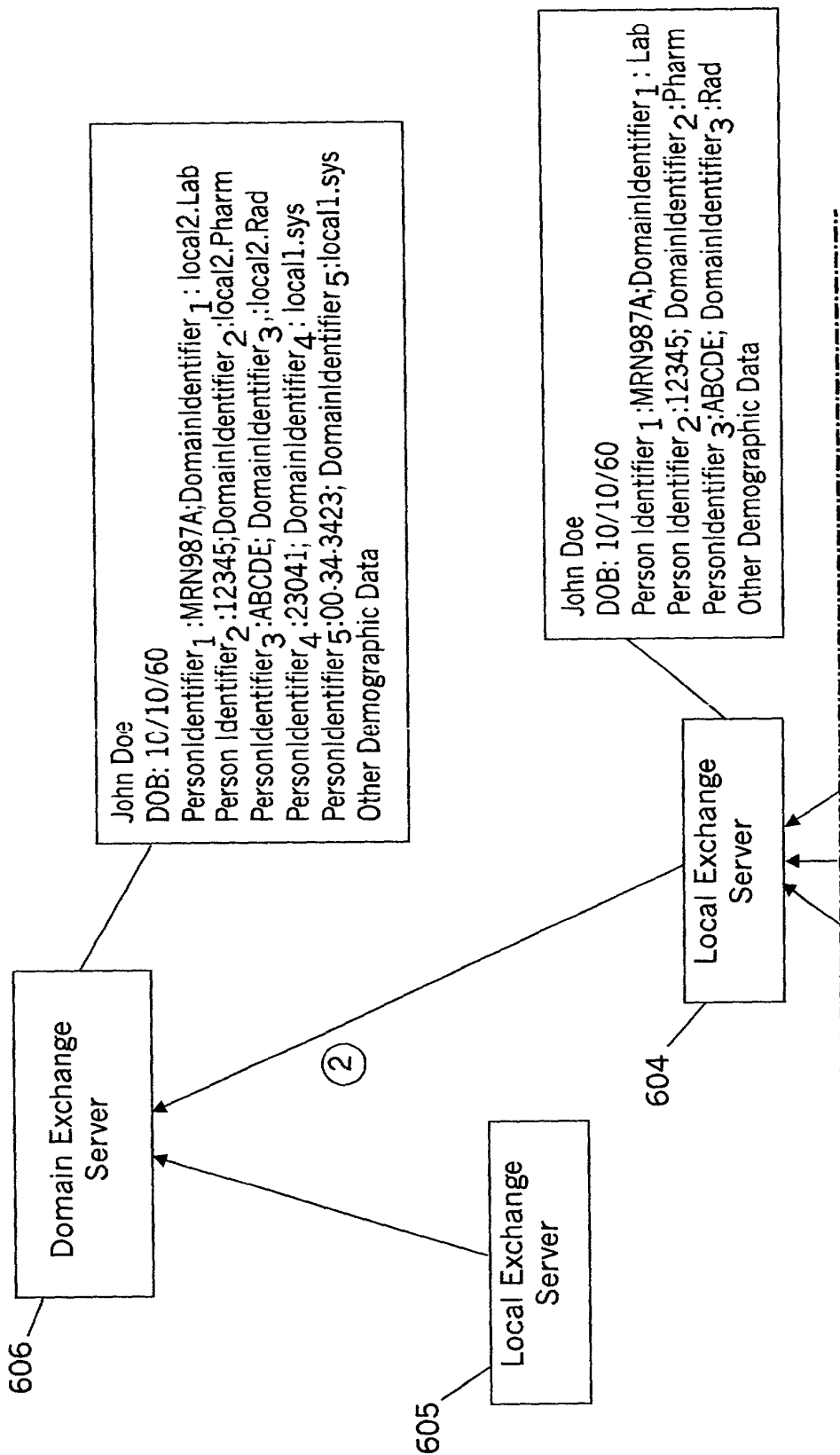


FIG. 6B

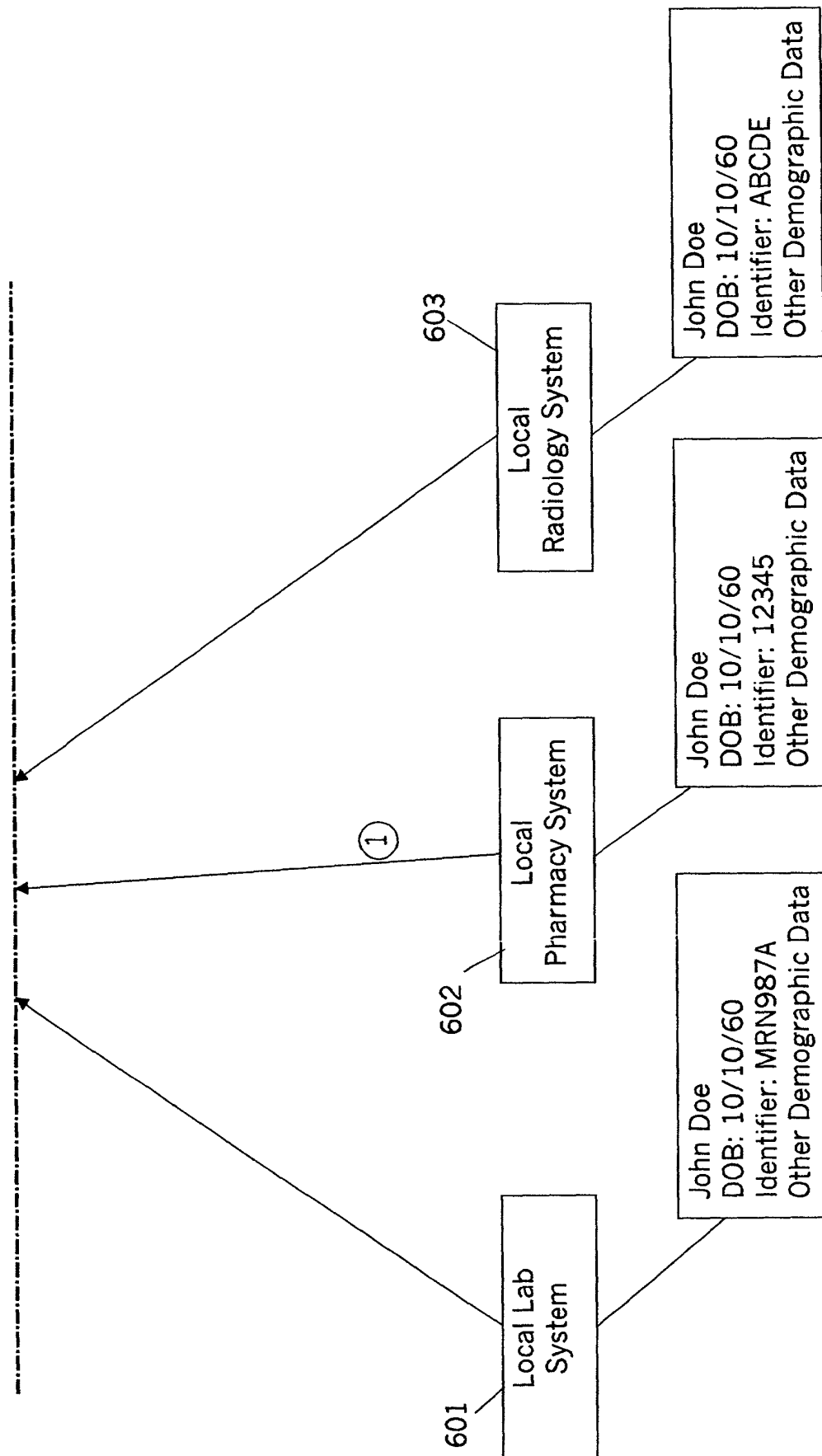


FIG. 6B

FIG. 7

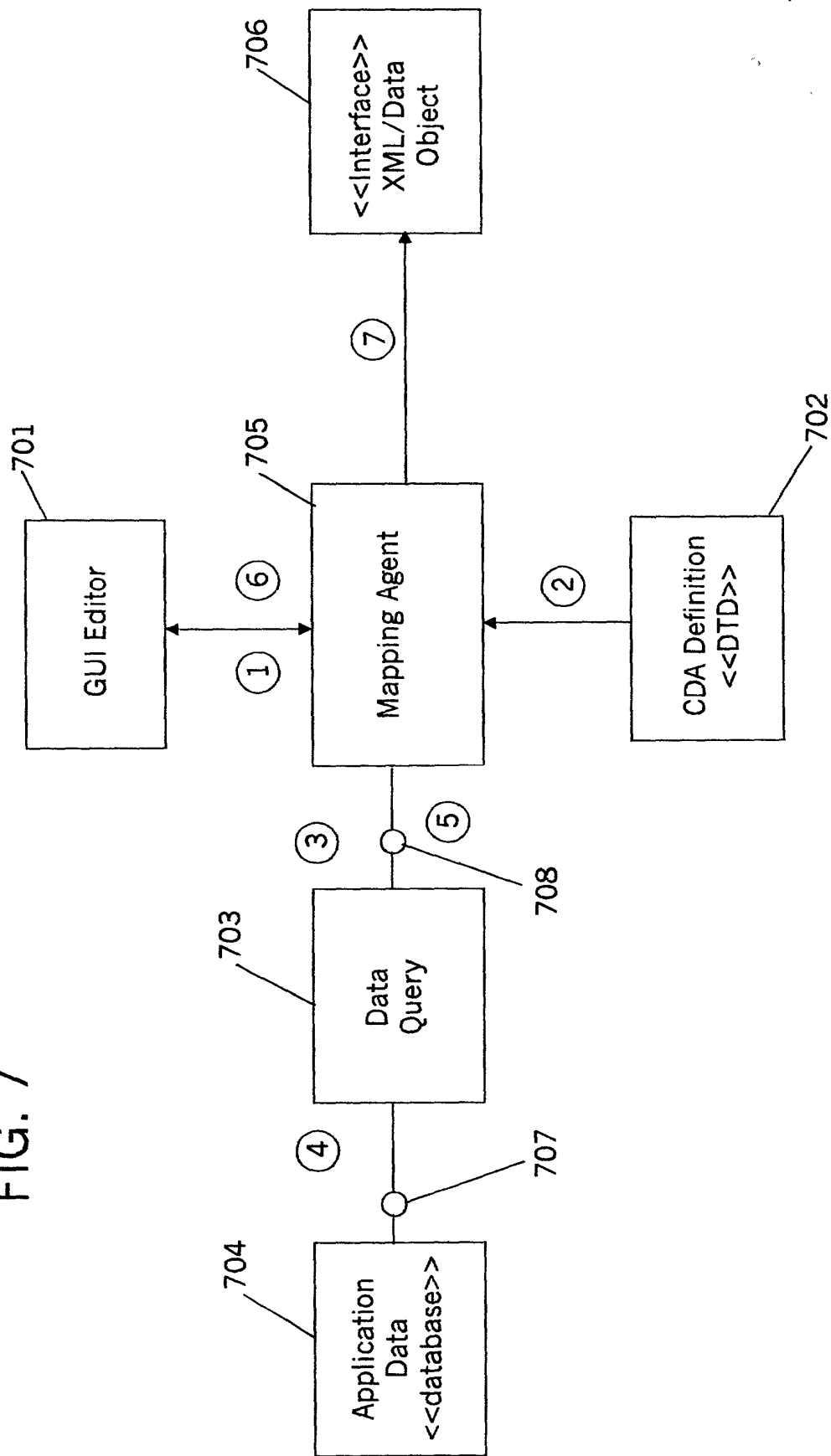




FIG. 8

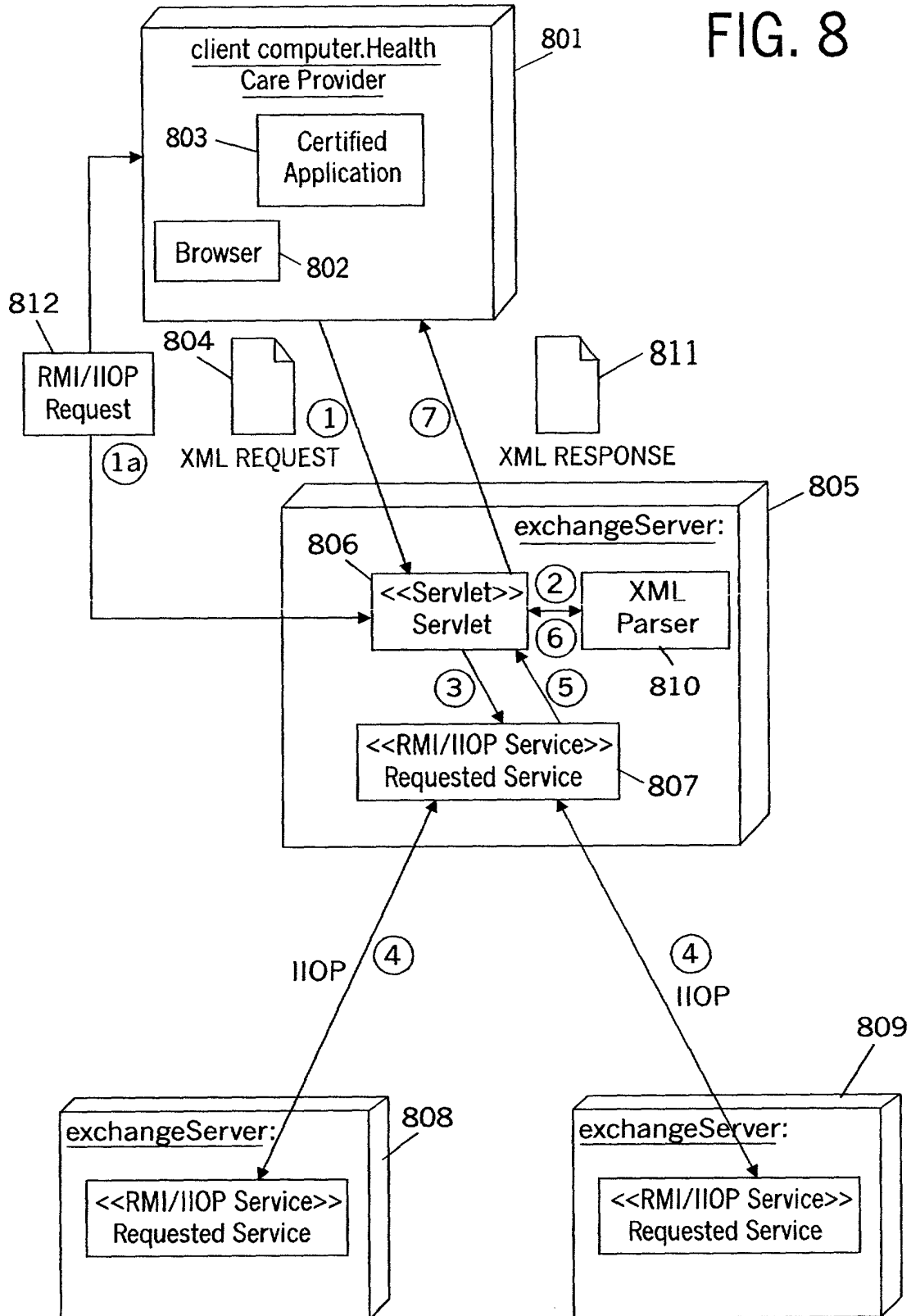


FIG. 9

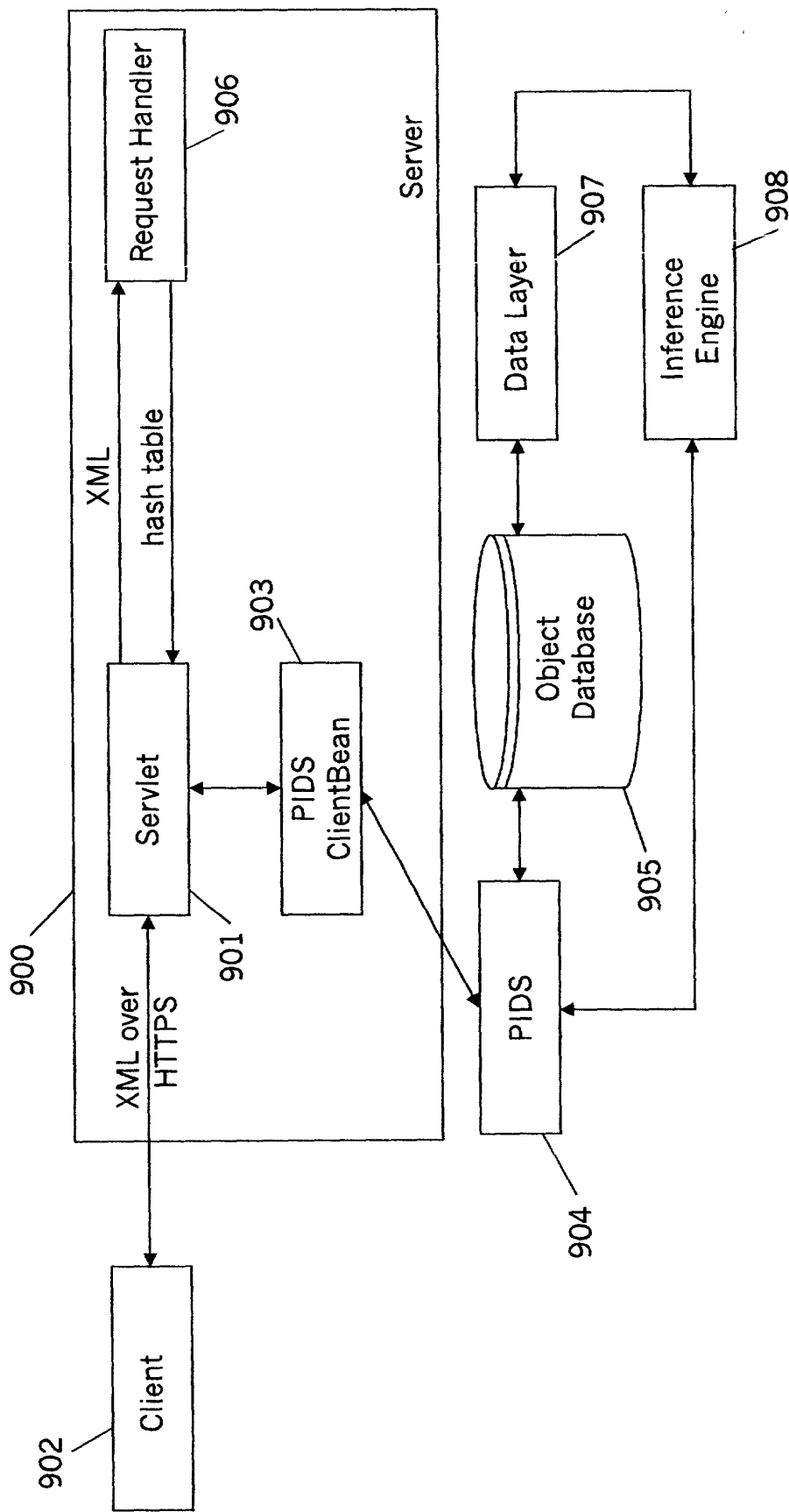
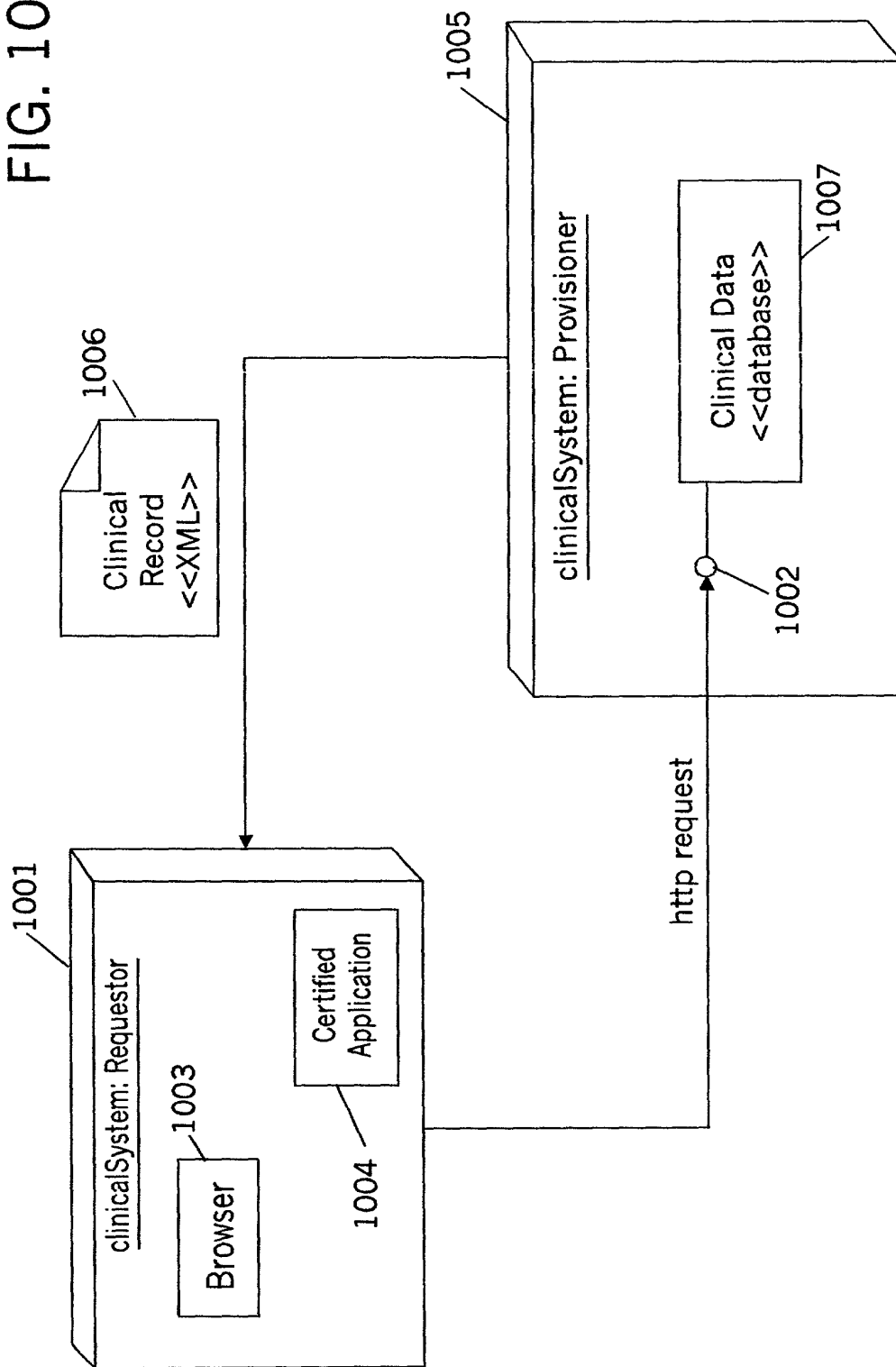


FIG. 10



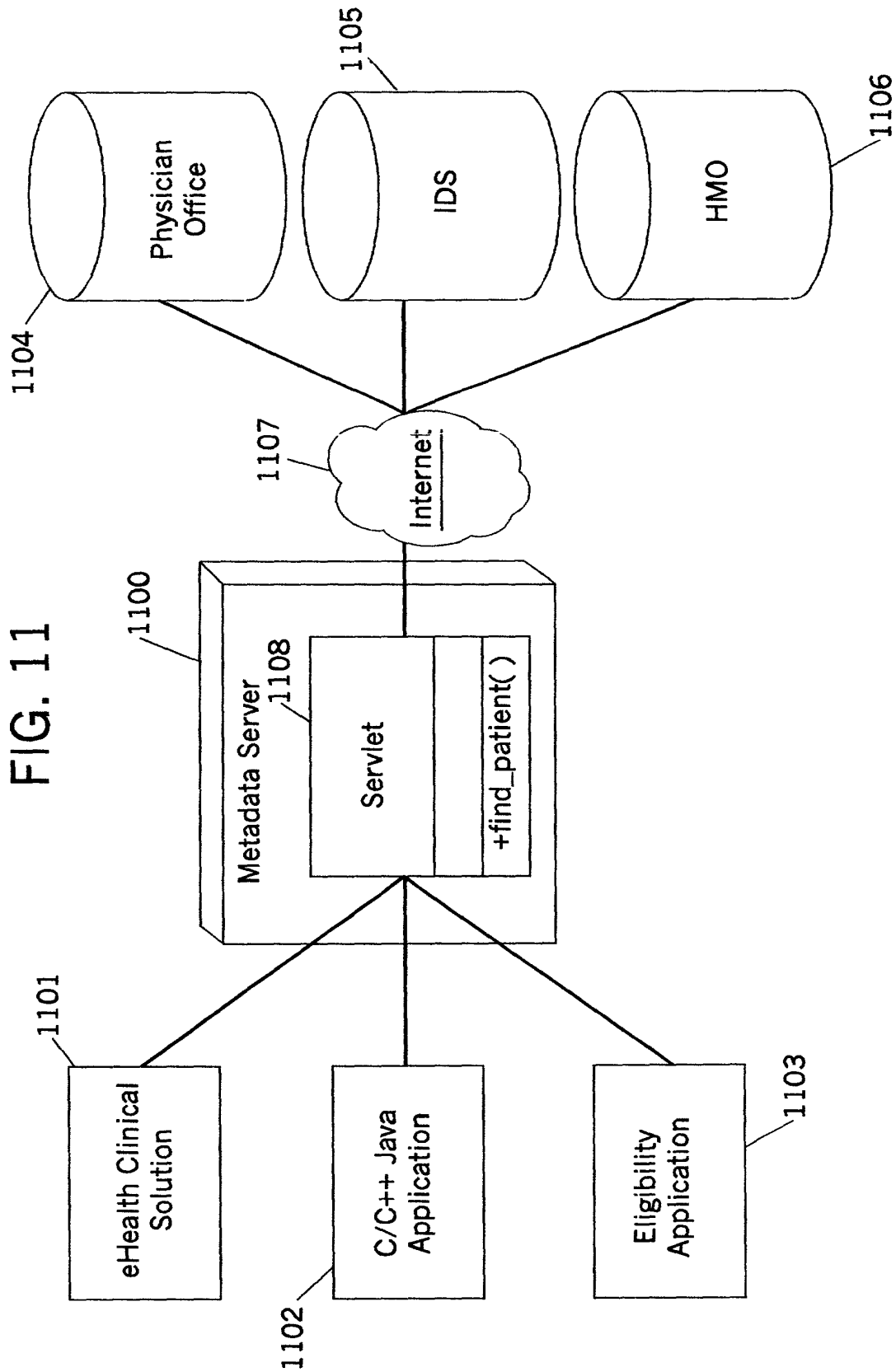
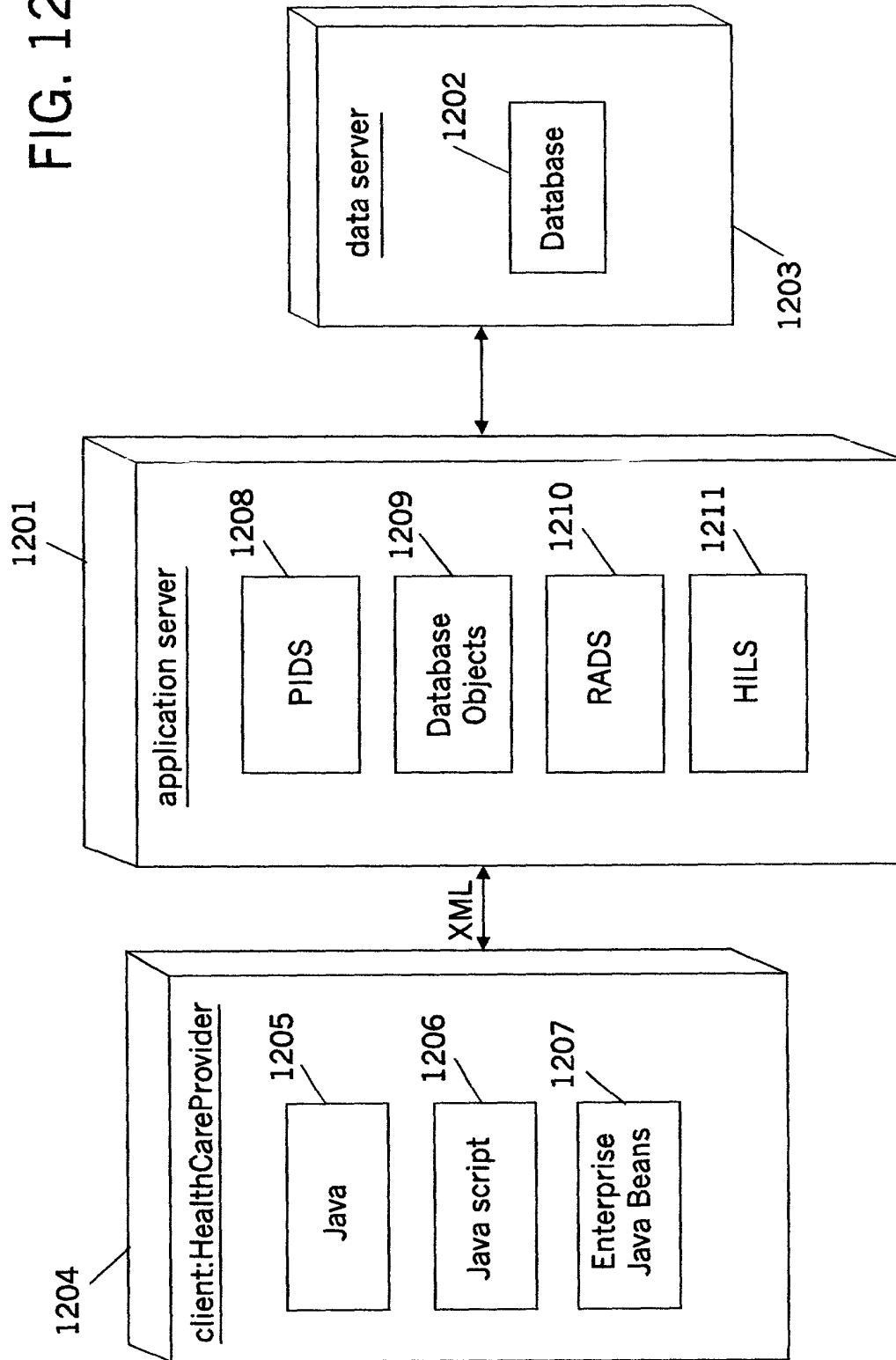


FIG. 12



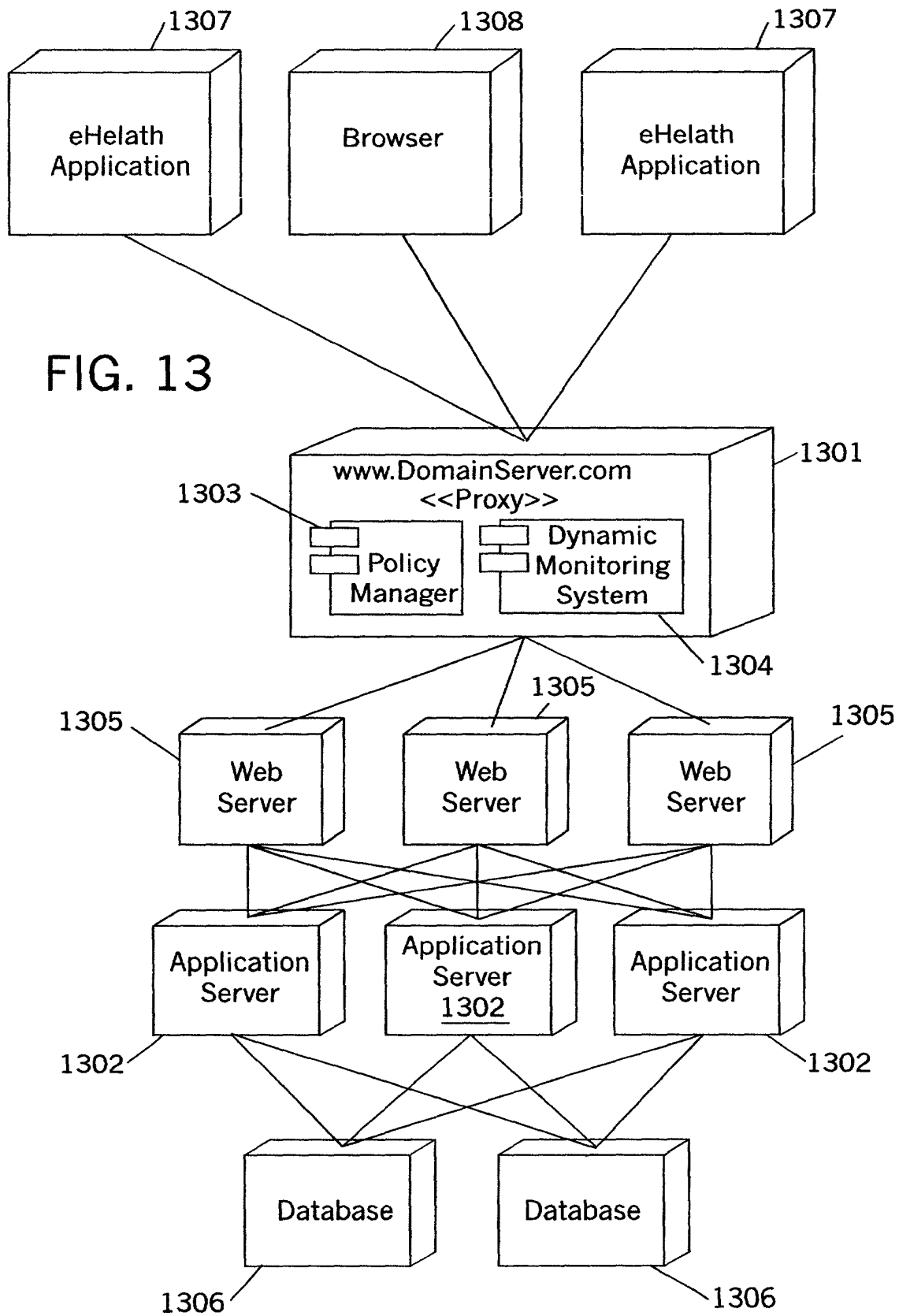


FIG. 14

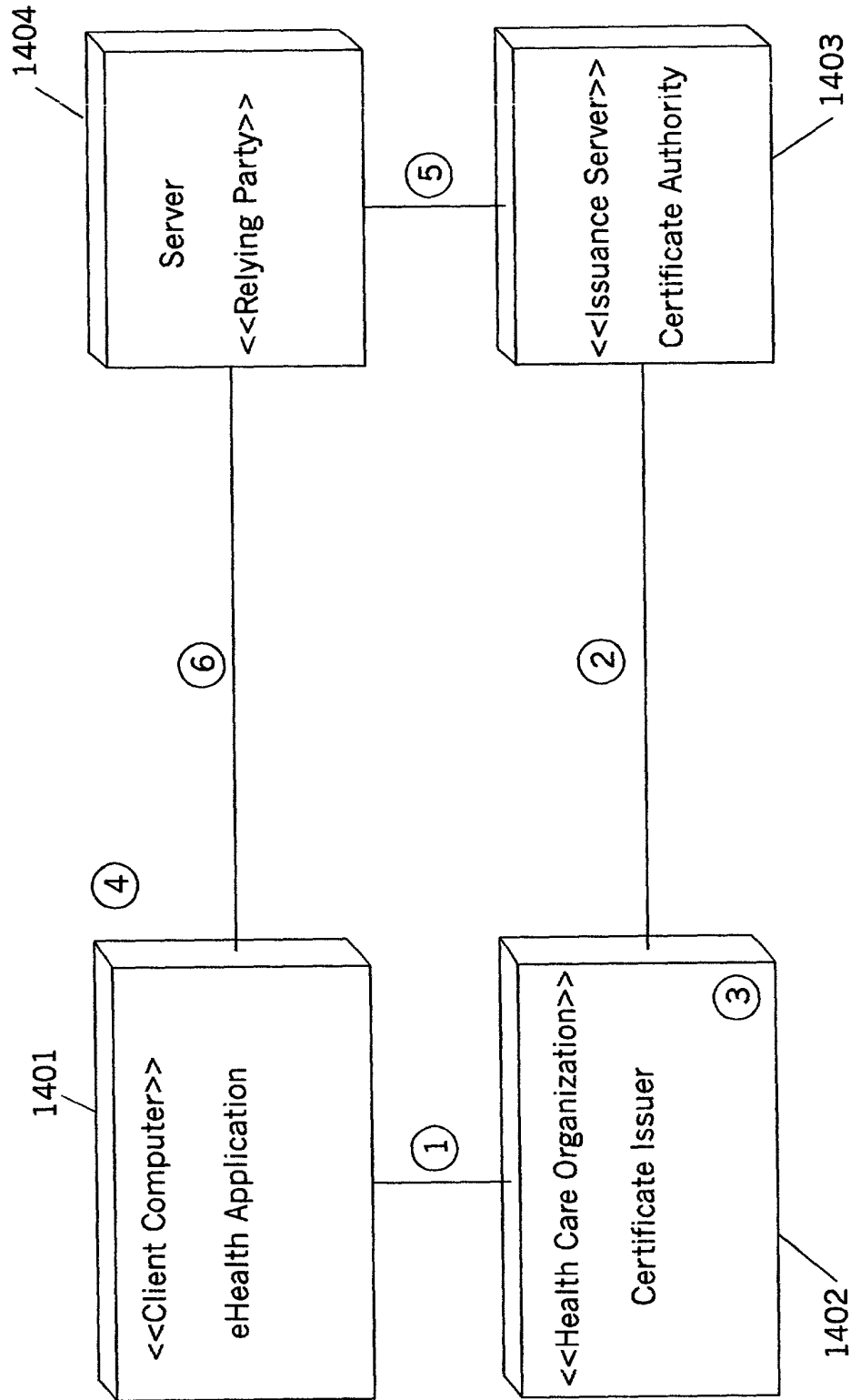


FIG. 15

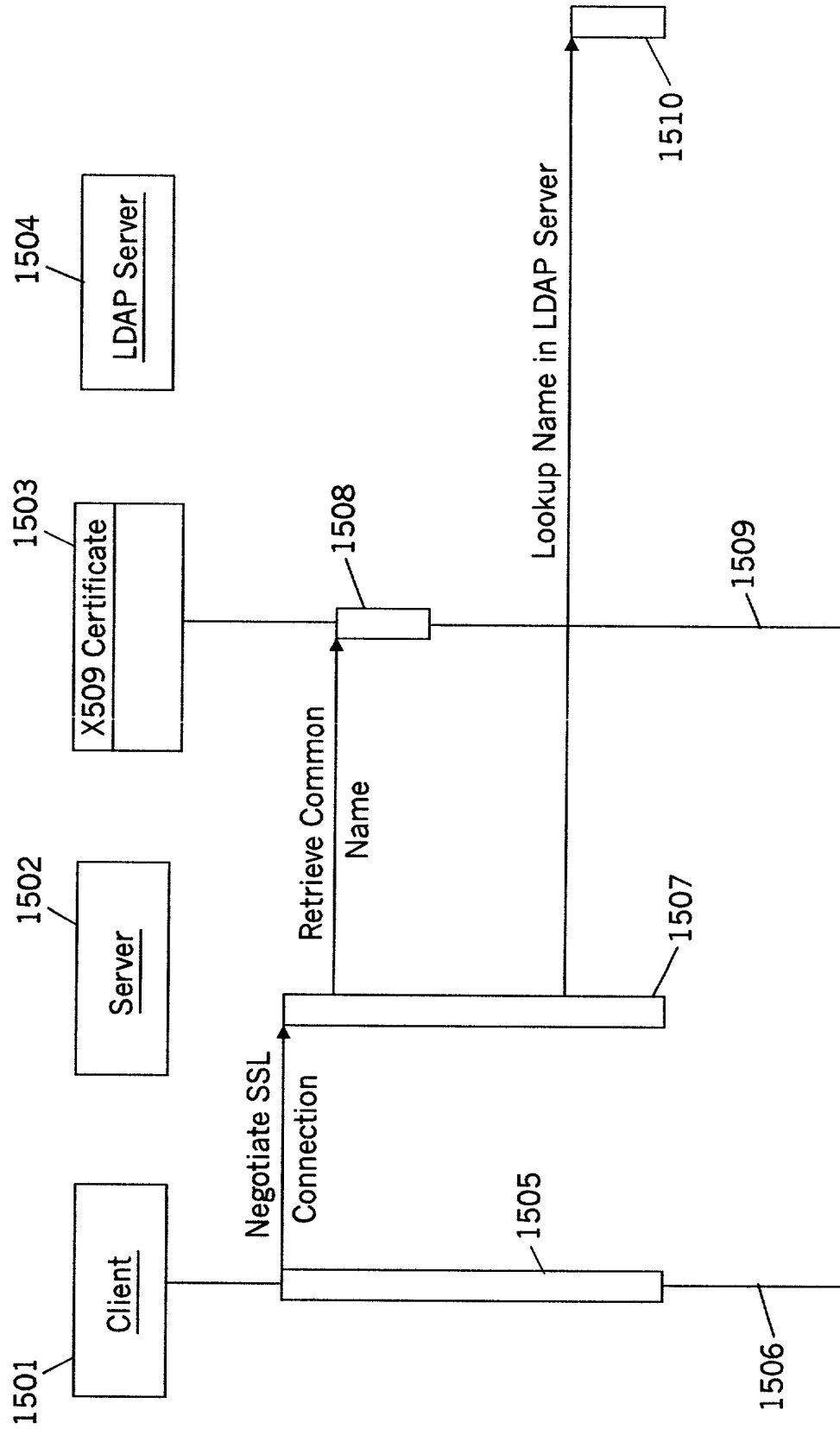




FIG. 16

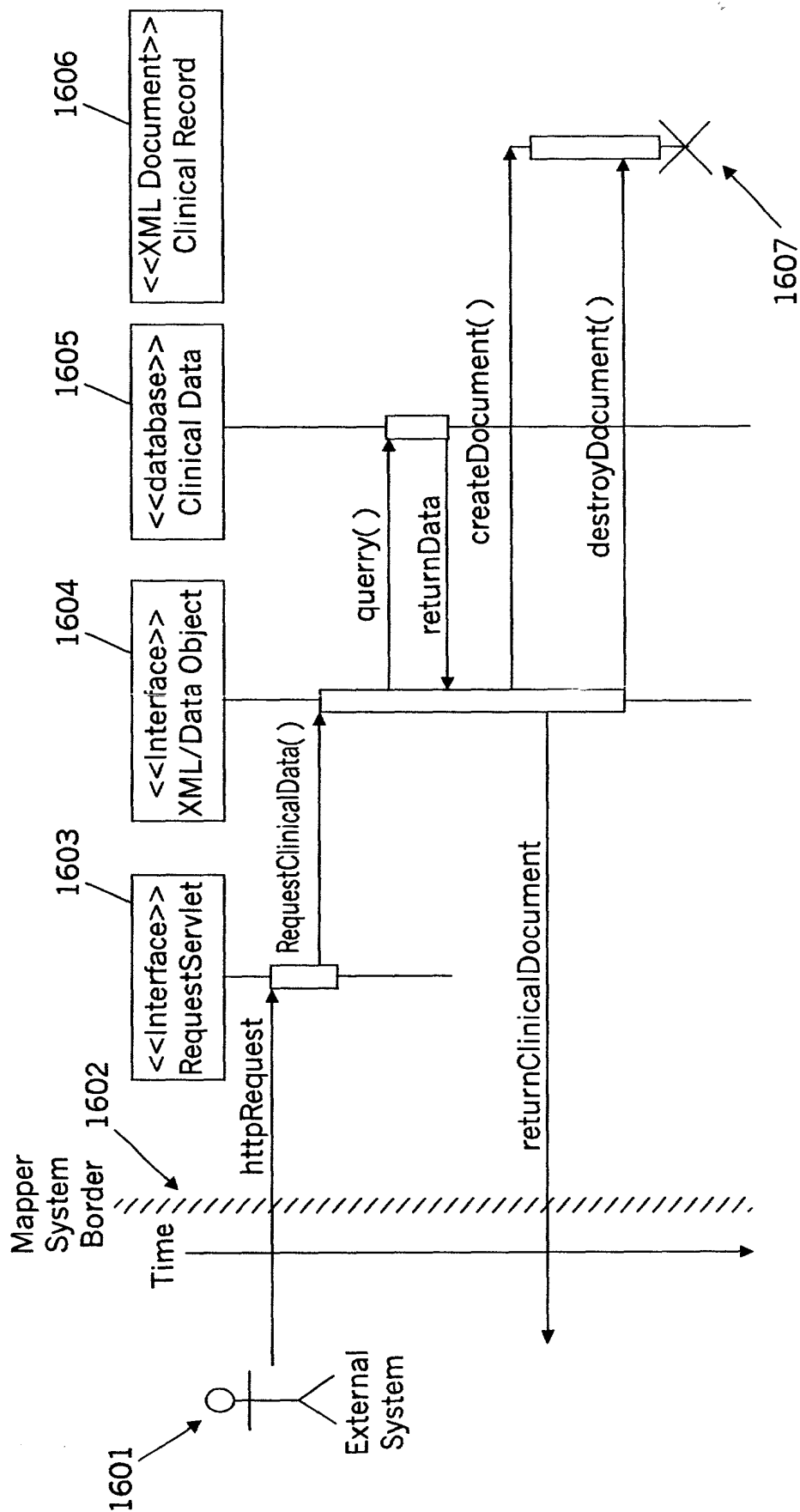


FIG. 17

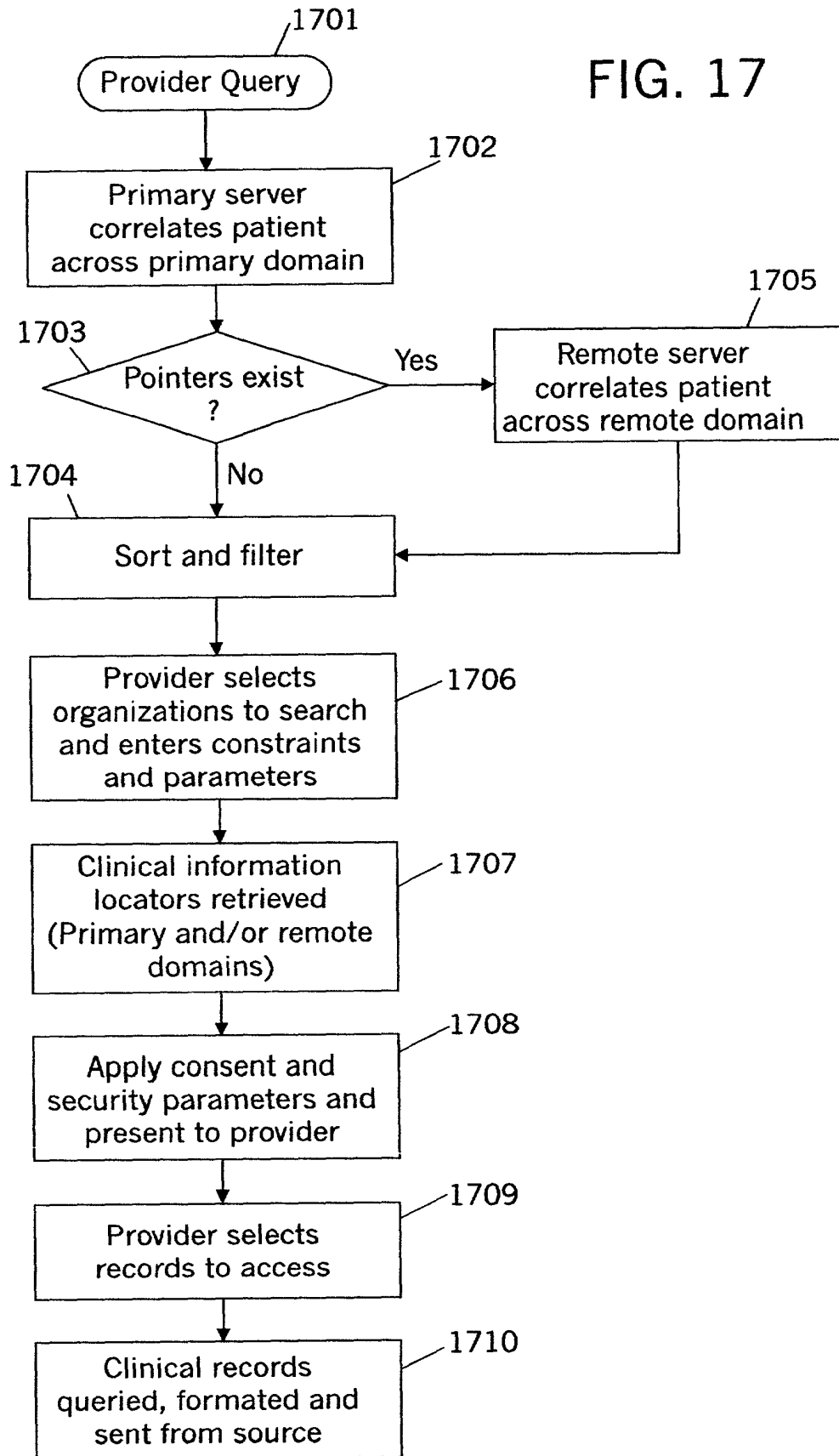


FIG. 17

FIG. 18A	FIG. 18B	FIG. 18C
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FIG. 18

FIG. 18A

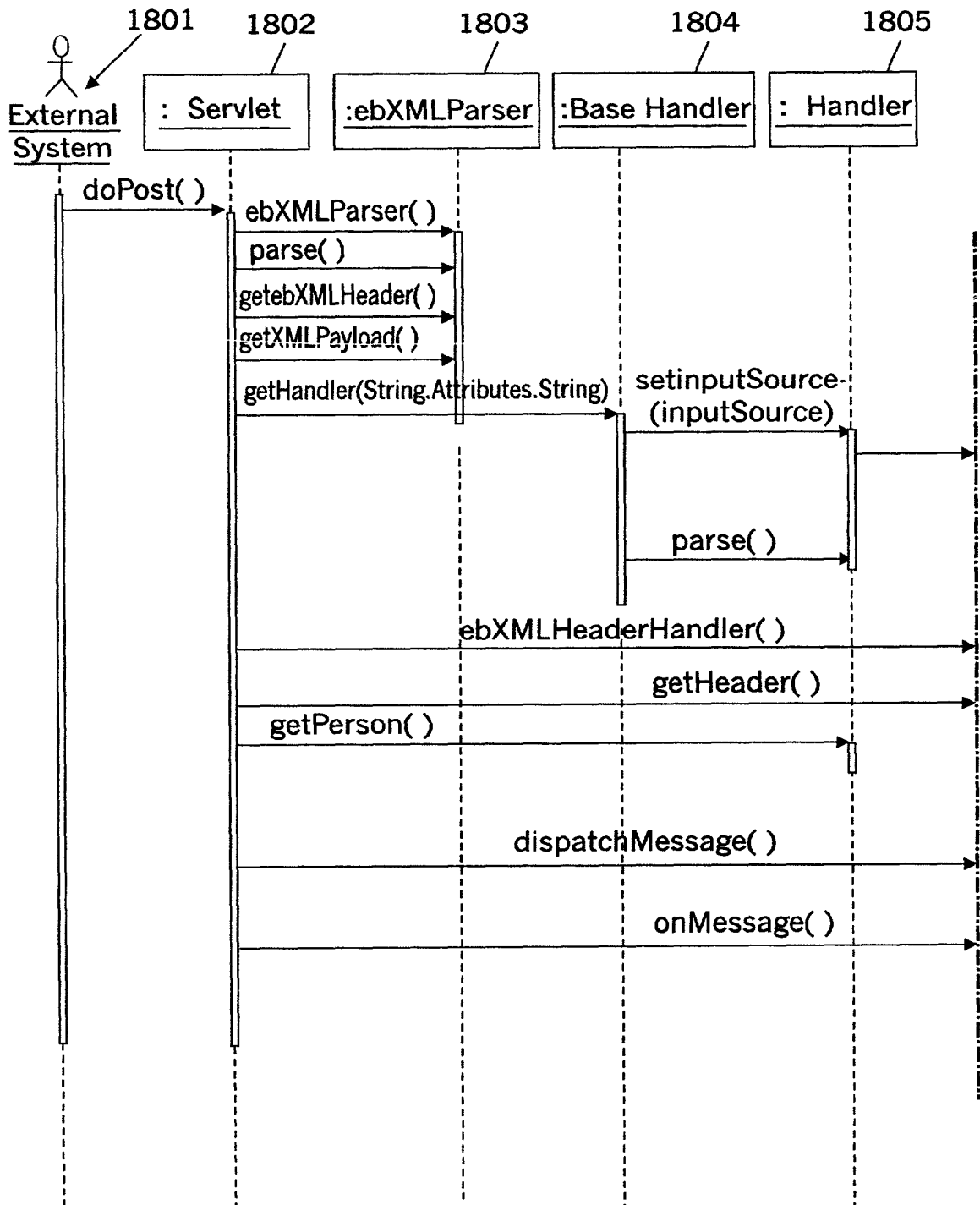
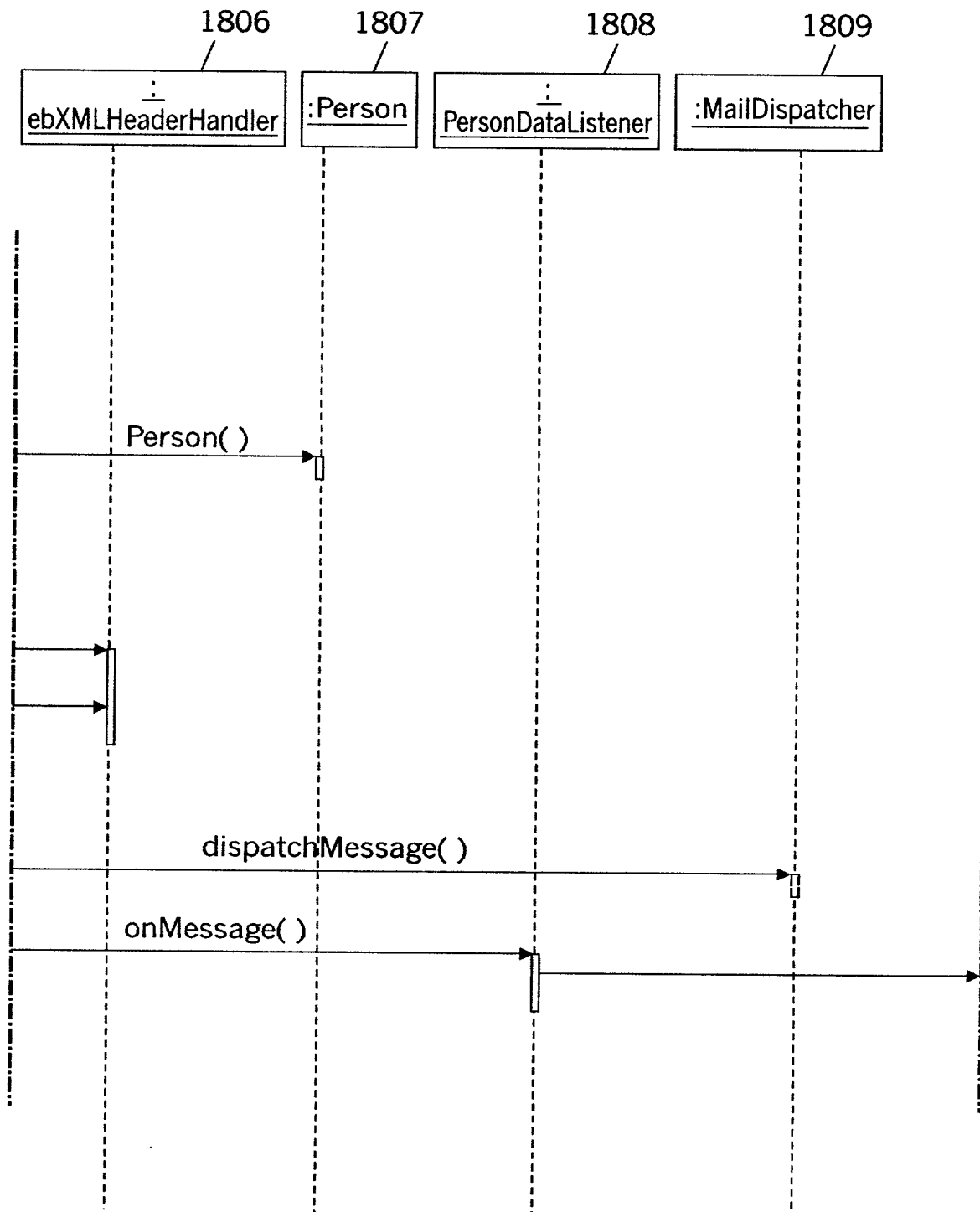


FIG. 18A

FIG. 18B



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FIG. 18C

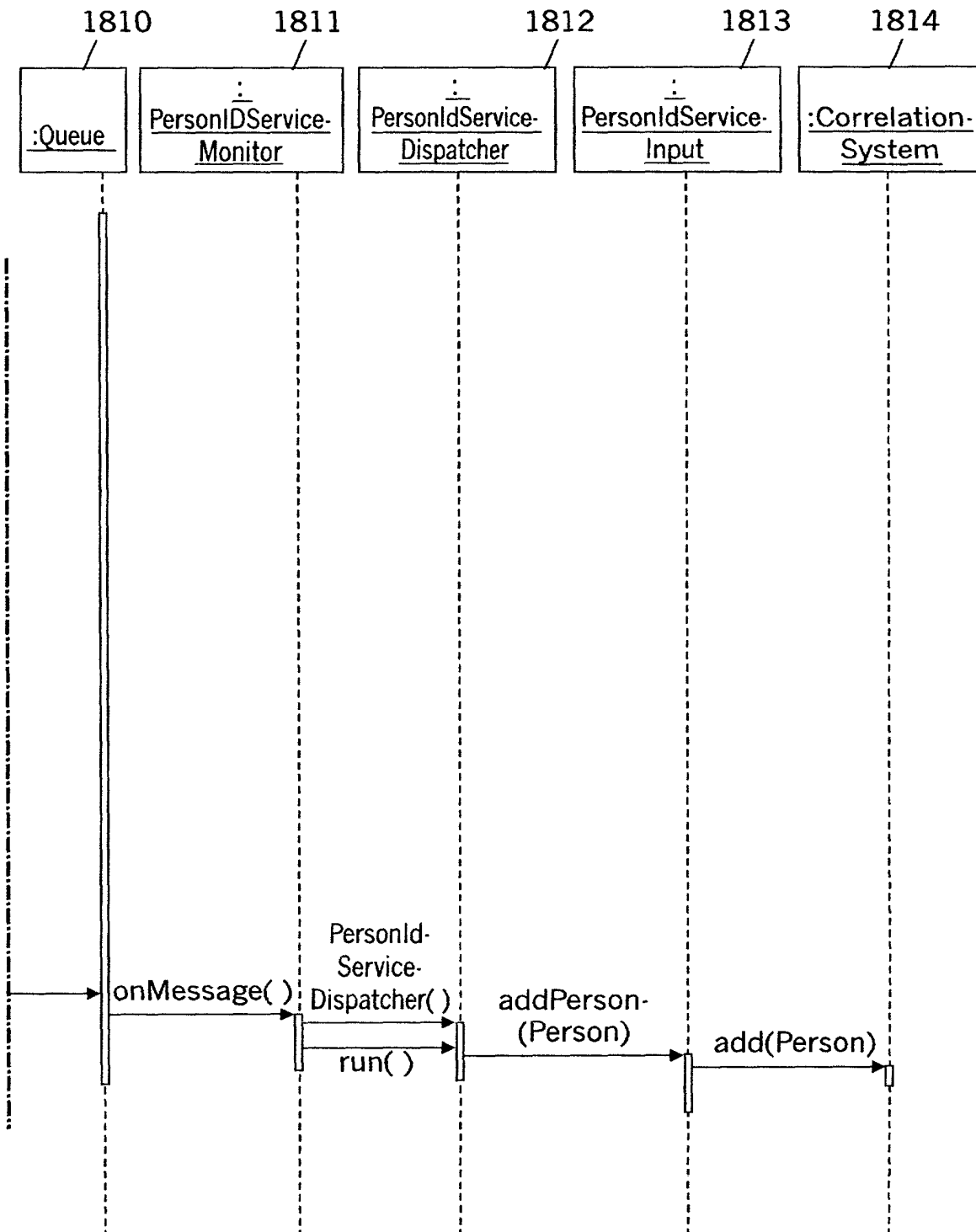


FIG. 19

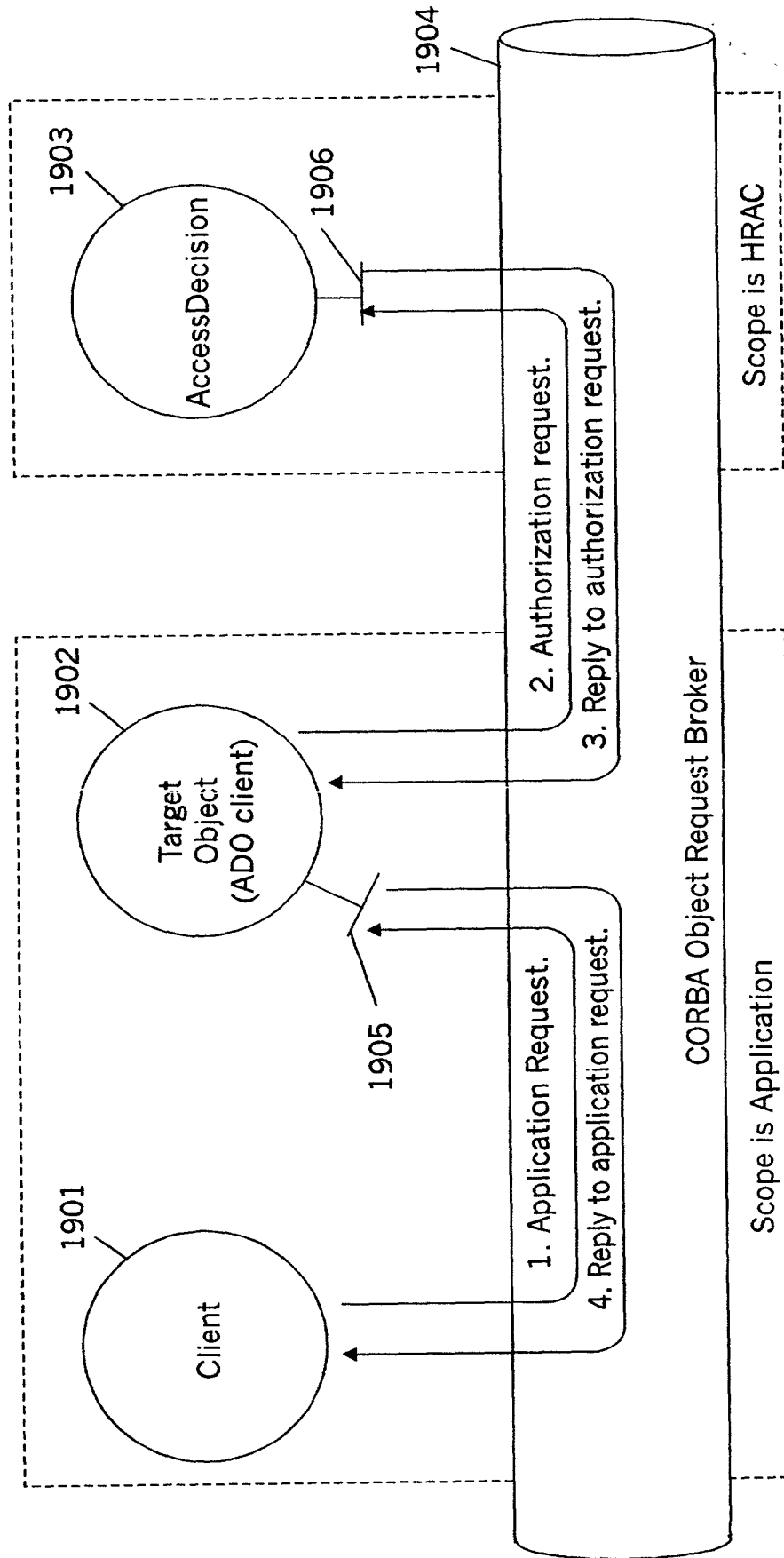


FIG. 20

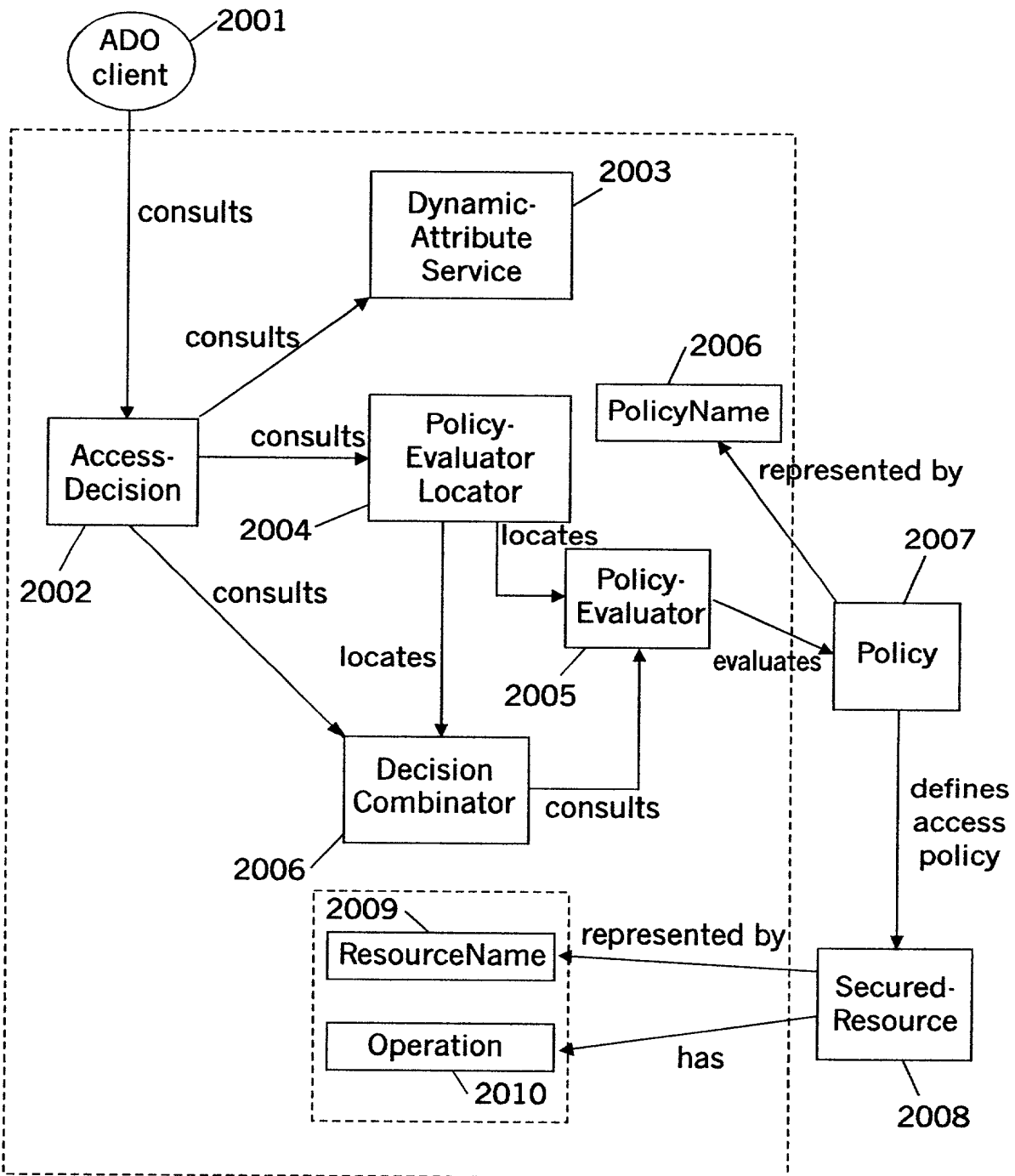
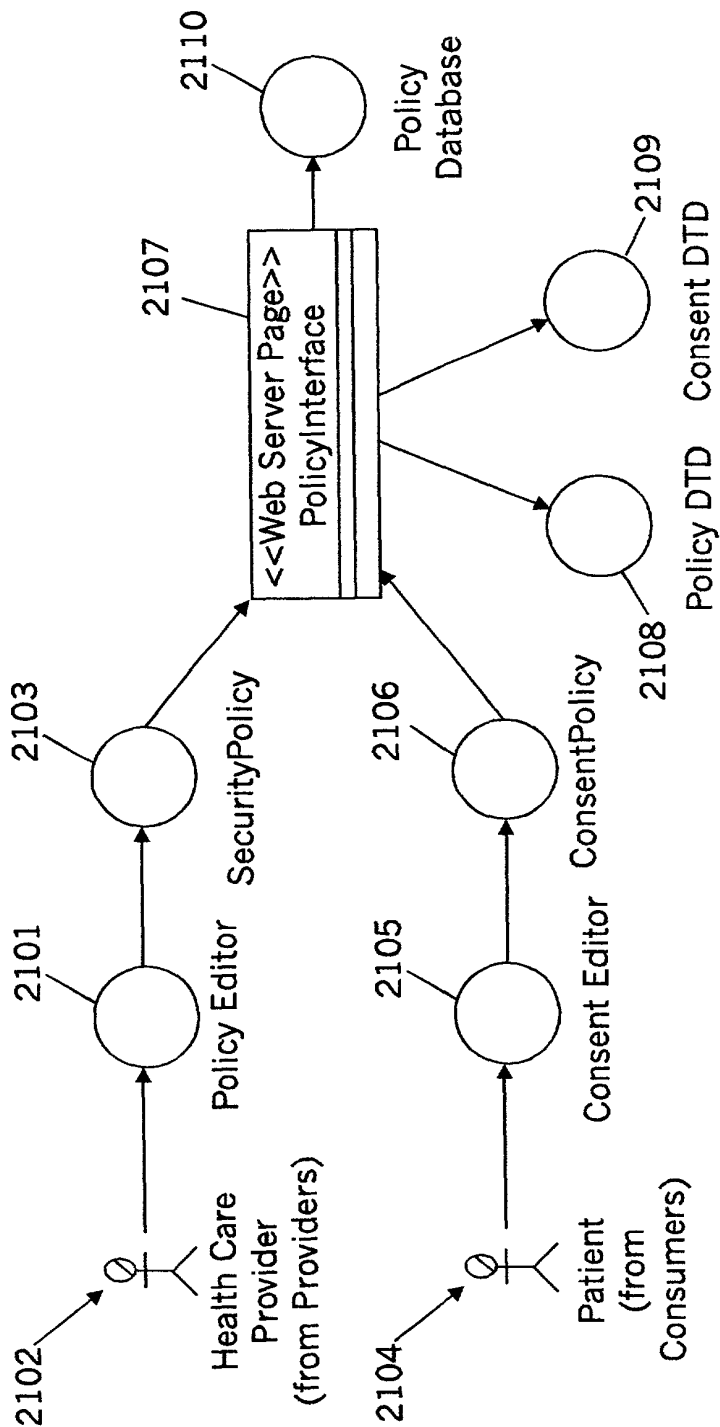


FIG. 21





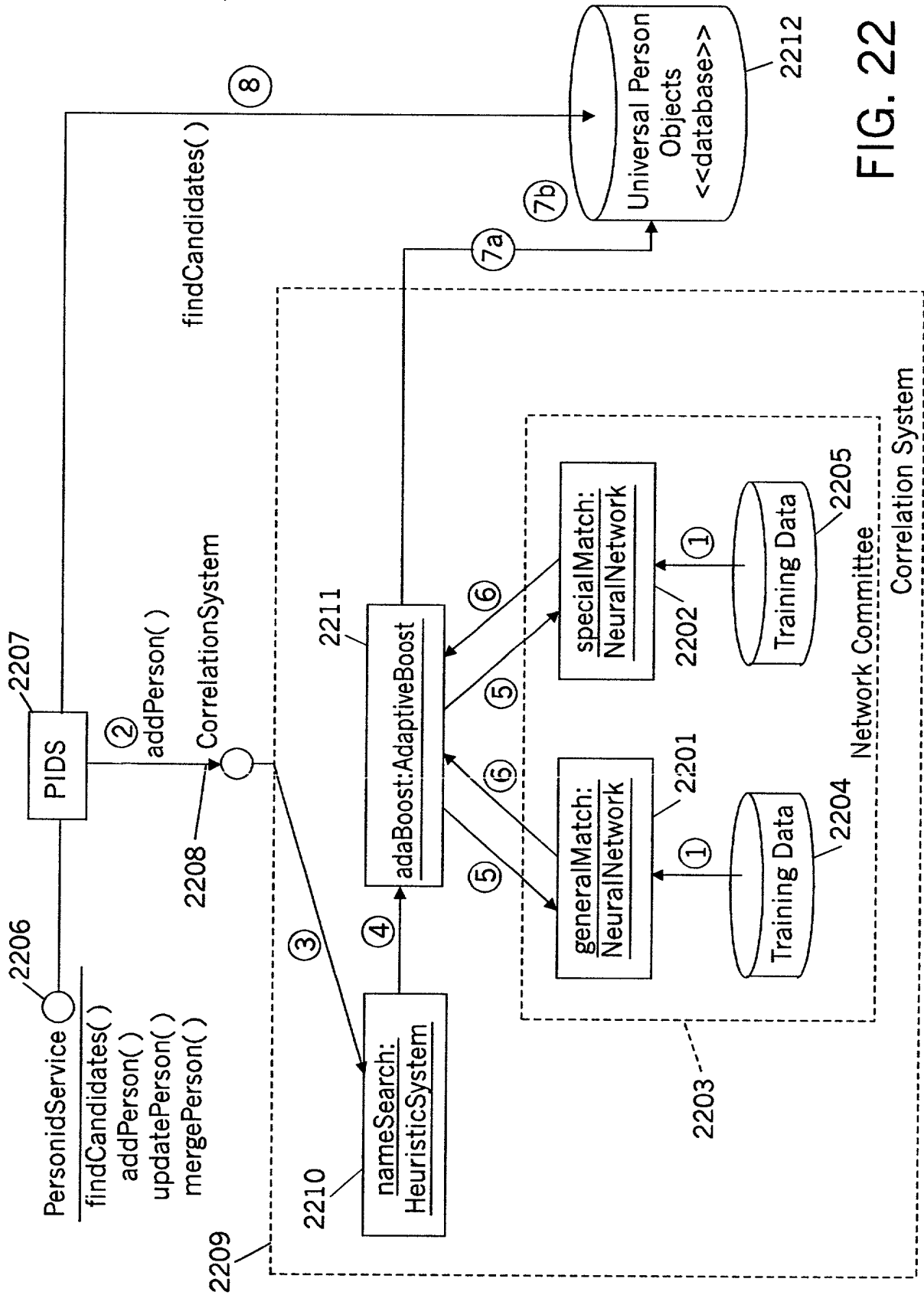


FIG. 23

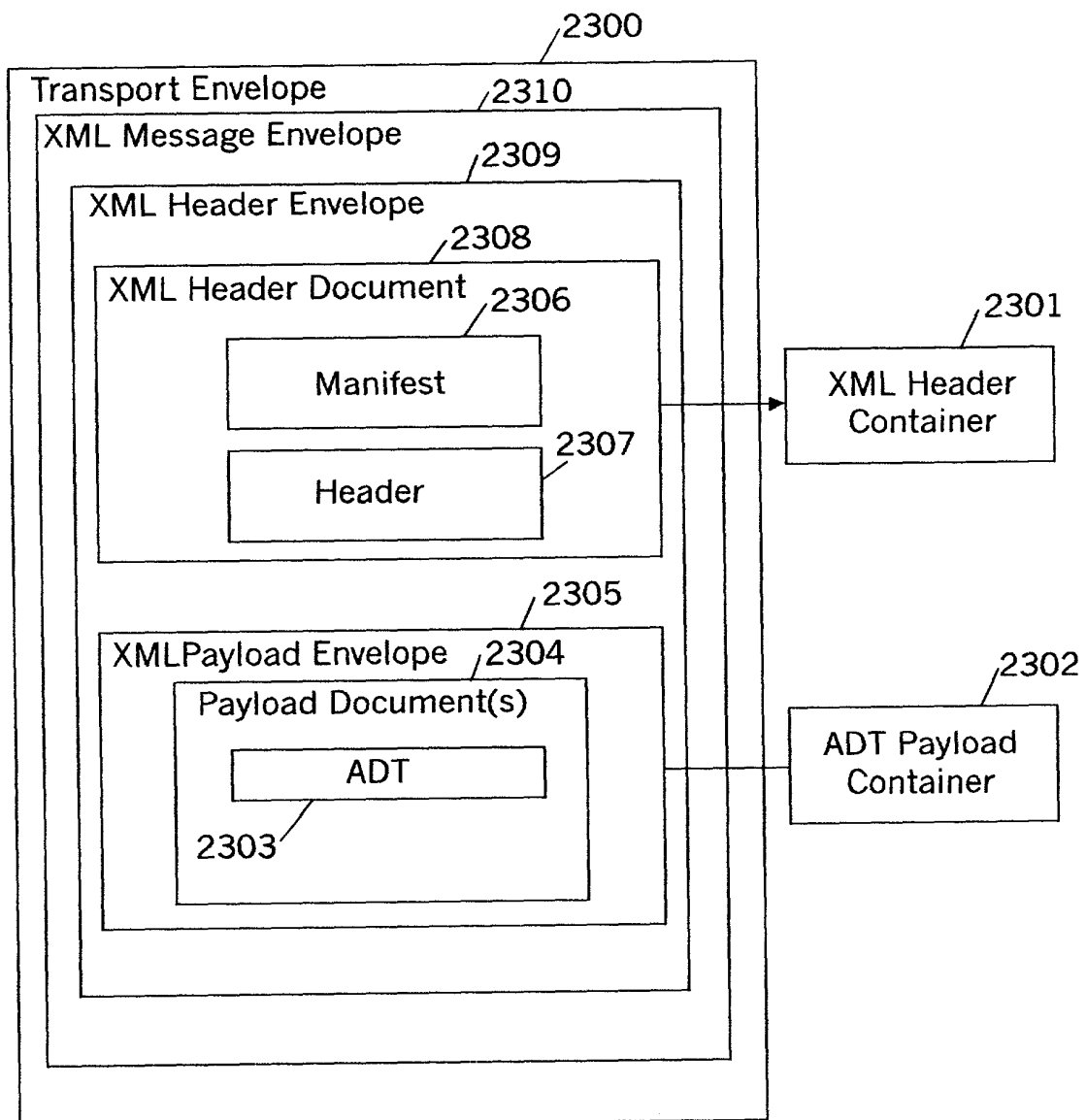




FIG. 24A

```

<?xml version = "1.0"?> <schema xmlns = "http://www.w3.org/ 1999/XMLSchema">
<ELEMENT ebXMLHeader (Manifest , Header )>
<!ATTLIST ebXMLHeader Version CDATA #FIXED '1.0'
Message Type CDATA #FIXED 'Normal'>
<!ELEMENT Manifest (DocumentReference )+>
<!ELEMENT DocumentReference (Document Description?, DocumentLabel , DocumentId )>
<!ELEMENT DocumentDescription (#PCDATA )>
<!ATTLIST DocumentDescription e-dtype NMTOKEN #FIXED 'string'>
<!ELEMENT DocumentLabel (#PCDATA )>
<!ATTLIST DocumentLabel e-dtype NMTOKEN #FIXED 'string'>
<!ELEMENT DocumentId (#PCDATA )>
<!ATTLIST DocumentId e-dtype NMTOKEN #FIXED 'uri'>
<!ELEMENT Header (From , To , TPAInfo , MessageData , ReliableMessagingInfo )>
<!ELEMENT TPAINfo (TPAId , ConversationId , ServiceInterface , Action )>
<!ELEMENT ServiceInterface (#PCDATA )>
<!ELEMENT ServiceInterface e-dtype NMTOKEN #FIXED 'string'>
<!ELEMENT Action (#PCDATA )>
<!ATTLIST Action e-dtype NMTOKEN #FIXED 'string'>
<!ELEMENT TPAId (#PCDATA )>
<!ATTLIST TPAId context CDATA 'Undefined'
e-dtype NMTOKEN #FIXED 'uri'>
<!ELEMENT ConversationId (#PCDATA )>
<!ATTLIST ConversationId context CDATA 'Undefined'
e-dtype NMTOKEN #FIXED 'uri'>

```

FIG. 24B

```

<!ELEMENT MessageData (MessageId , TimeStamp , RefToMessageId )>
<!ELEMENT RefToMessageId (#PCDATA)>
<!ATTLIST RefToMessageId e-dtype NMTOKEN #FIXED 'uuid' >
<!ELEMENT MessageId (#PCDATA)>
<!ATTLIST MessageId e-dtype NMTOKEN #FIXED 'uuid' >
<!ELEMENT From (PartyId)>
<!ELEMENT To (PartyId)>
<!ELEMENT PartyId (#PCDATA)>
<!ATTLIST PartyId context CDATA 'Undefined'
e-dtype NMTOKEN #FIXED 'uri' >
<!ELEMENT ReliableMessagingInfo EMPTY>
<!ATTLIST ReliableMessagingInfo DeliverySemantics (OnceAndOnlyOnce | BestEffort )
#FIXED 'BestEffort' >
<!ELEMENT RoutingHeader (SenderURI , ReceiverURI , ErrorURI, Timestamp,
SequenceNumber )> <!ELEMENT SenderURI (#PCDATA)>
<!ATTLIST SenderURI e-dtype NMTOKEN #FIXED 'uri' >
<!ELEMENT ReceiverURI (#PCDATA)>
<!ATTLIST ReceiverURI e-dtype NMTOKEN #FIXED 'uri' >
<!ELEMENT ErrorURI (#PCDATA)>
<!ATTLIST ErrorURI e-dtype NMTOKEN #FIXED 'uri' >
<!ELEMENT Timestamp (#PCDATA)>
<!ATTLIST Timestamp e-dtype NMTOKEN #FIXED 'dateTime' >
<!ELEMENT SequenceNumber (#PCDATA)>

```

FIG. 25A

```

<!-- Include HL7 Version 2.3.1 datatypes specification -->
<!ENTITY % HL7V231-datatypes PUBLIC "-//HL7//DTD HL7 V2.3.1 datatype
definitions//EN" "datatypes.dtd">
%HL7V231-datatypes;
<!-- Message declaration -->
<!ENTITY % ADT_A08.CONTENT " (MSH,EVN,PID) ">
<!ELEMENT ADT_A08 %ADT_A08.CONTENT;>
<!-- Segment declarations -->
<!ENTITY % EVN.CONTENT " (EVN.1?,EVN.2,EVN.4?,EVN.7?)">
<!ELEMENT EVN %EVN.CONTENT;>
<!ENTITY % MSH.CONTENT " (MSH.1,MSH.2,MSH.3?MSH.4?,MSH.5?,MSH.6?,MSH.7,MSH.8?MSH.
9,MSH.10,MSH.11,MSH.12,MSH.13?,MSH.14?,MSH.15?,MSH.16?)">
<!ELEMENT MSH %MSH.CONTENT;>
<!ENTITY % PID.CONTENT "(PID.3+,PID.5+,PID.6*,PID.7?,PID.8?,PID.9*,PID.10*,PID.
11*,PID.12?,PID.13*,PID.14*,PID.16?,PID.17?,PID.19?,PID.20?,PID.22*,PID.23?,PID.28?)">
<!ELEMENT PID %PID.CONTENT;>
<!-- Field declarations -->
<!-- EVN field declarations -->
<!ELEMENT EVN.1 %EVN.1.CONTENT;>
<!ENTITY % EVN.1.ATTRIBUTES "Item CData #FIXED '99'"
    Table CData #FIXED '3'
    LongName CData #FIXED 'Event Type Code'
    Type CData #FIXED 'ID'">

```

## FIG. 25B

```
<!ATTLIST EVN.1 %EVN.1.ATTRIBUTES; >
<!ENTITY % EVN.2.CONTENT "%TS;">
<!ELEMENT EVN.2 %EVN.2.CONTENT;>
<!ENTITY % EVN.2.ATTRIBUTES "Item CDATA #FIXED '100'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Recorded Date/Time'
Type CDATA #FIXED 'TS'">
<!ATTLIST EVN.2 %EVN.2.ATTRIBUTES; >
<!ENTITY % EVN.4.CONTENT "%IS;">
<!ELEMENT EVN.4 %EVN.4.CONTENT;>
<!ENTITY % EVN.4.ATTRIBUTES "Item CDATA #FIXED '102'
Table CDATA #FIXED '62'
LongName CDATA #FIXED 'Event Reason Code'
Type CDATA #FIXED 'IS'">
<!ATTLIST EVN.4 %EVN.4.ATTRIBUTES; >
<!ENTITY % EVN.7.CONTENT "%HD;">
<!ELEMENT EVN.7 %EVN.7.CONTENT;>
<!ENTITY % EVN.7.ATTRIBUTES "Item CDATA #FIXED '1534'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Event Facility'
Type CDATA #FIXED 'HD'">
<!ATTLIST EVN.7 %EVN.7.ATTRIBUTES; >
<!-- MSH field declarations -->
<!ENTITY % MSH.1.CONTENT "%ST;">
<!ELEMENT MSH.1 %MSH.1.CONTENT;>
<!ENTITY % MSH.1.ATTRIBUTES "Item CDATA #FIXED '1'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Field Separator'
Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.1 %MSH.1.ATTRIBUTES; >
<!ENTITY % MSH.2 .CONTENT "%ST;">
<!ELEMENT MSH.2 %MSH.2.CONTENT;>
```

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## FIG. 25C

<!ENTITY % MSH.2.ATTRIBUTES "Item CDATA #FIXED '2'  
Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Encoding Characters'  
Type CDATA #FIXED 'ST'">  
<!ATTLIST MSH.2 %MSH.2.ATTRIBUTES; >  
<!ENTITY % MSH.3.CONTENT "%HD;">  
<!ELEMENT MSH.3 %MSH.3.CONTENT;>  
<!ENTITY % MSH.3.ATTRIBUTES "Item CDATA #FIXED '3'  
Table CDATA #FIXED '361'  
LongName CDATA #FIXED 'Sending Application'  
Type CDATA #FIXED 'HD'">  
<!ATTLIST MSH.3 %MSH.3.ATTRIBUTES; >  
<!ENTITY % MSH.4.CONTENT "%HD;">  
<!ELEMENT MSH.4 %MSH.4.CONTENT;>  
<!ENTITY % MSH.4.ATTRIBUTES "Item CDATA #FIXED '4'  
Table CDATA #FIXED '362'  
LongName CDATA #FIXED 'Sending Facility'  
Type CDATA #FIXED 'HD'">  
<!ATTLIST MSH.4 %MSH.4.ATTRIBUTES; >  
<!ENTITY % MSH.5.CONTENT "%HD;">  
<!ELEMENT MSH.5 %MSH.5.CONTENT;>  
<!ENTITY % MSH.5.ATTRIBUTES "Item CDATA #FIXED '5'  
Table CDATA #FIXED '361'  
LongName CDATA #FIXED 'Receiving Application'  
Type CDATA #FIXED 'HD'">  
<!ATTLIST MSH.5 %MSH.5.ATTRIBUTES; >  
<!ENTITY % MSH.6.CONTENT "%HD;">  
<!ELEMENT MSH.6 %MSH.6.CONTENT;>  
<!ENTITY % MSH.6.ATTRIBUTES "Item CDATA #FIXED '6'  
Table CDATA #FIXED '362'  
LongName CDATA #FIXED 'Receiving Facility'  
Type CDATA #FIXED 'HD'">

## FIG. 25D

```
<!ATTLIST MSH.6 %MSH.6.ATTRIBUTES; >
<!ENTITY % MSH.7.CONTENT "%TS;">
<!ELEMENT MSH.7 %MSH.7.CONTENT;>
<!ENTITY % MSH.7.ATTRIBUTES "Item CDATA #FIXED '7'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Date/Time Of Message'
Type CDATA #FIXED 'TS'">
<!ATTLIST MSH.7 %MSH.7.ATTRIBUTES; >
<!ENTITY % MSH.8.CONTENT "%ST;">
<!ELEMENT MSH.8 %MSH.8.CONTENT;>
<!ENTITY % MSH.8.ATTRIBUTES "Item CDATA #FIXED '8'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Security'
Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.8 %MSH.8.ATTRIBUTES; >
<!ENTITY % MSH.9.CONTENT "%CM_MSG_TYPE;">
<!ELEMENT MSH.9 %MSH.9.CONTENT;>
<!ENTITY % MSH.9.ATTRIBUTES "Item CDATA #FIXED '9'
Table CDATA #FIXED '76'
LongName CDATA #FIXED 'Message Type'
Type CDATA #FIXED 'CM_MSG_TYPE'">
<!ATTLIST MSH.9 %MSH.9.ATTRIBUTES; >
<!ENTITY % MSH.10.CONTENT "%ST;">
<!ELEMENT MSH.10 %MSH.10.CONTENT;>
<!ENTITY % MSH.10.ATTRIBUTES "Item CDATA #FIXED '10'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Message Control ID'
Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.10 %MSH.10.ATTRIBUTES; >
<!ENTITY % MSH.11.CONTENT "%PT;">
```

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## FIG. 25E

```
<!ELEMENT MSH.11 %MSH.11.CONTENT;>
<!ENTITY % MSH.11.ATTRIBUTES "Item CDATA #FIXED '11'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Processing ID'
Type CDATA #FIXED 'PT'">
<!ATTLIST MSH.11 %MSH.11.ATTRIBUTES; >
<!ENTITY % MSH.12.CONTENT "%VID;">
<!ELEMENT MSH.12 %MSH.12.CONTENT;>
<!ENTITY % MSH.12.ATTRIBUTES "Item CDATA #FIXED '12'
Table CDATA #FIXED '104'
LongName CDATA #FIXED 'Version ID'
Type CDATA #FIXED 'VID'">
<!ATTLIST MSH.12 %MSH.12.ATTRIBUTES; >
<!ENTITY % MSH.13.CONTENT "%NM;">
<!ELEMENT MSH.13 %MSH.13.CONTENT;>
<!ENTITY % MSH.13.ATTRIBUTES "Item CDATA #FIXED '13'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Sequence Number'
Type CDATA #FIXED 'NM'">
<!ATTLIST MSH.13 %MSH.13.ATTRIBUTES; >
<!ENTITY % MSH.14.CONTENT "%ST;">
<!ELEMENT MSH.14 %MSH.14.CONTENT;>
<!ENTITY % MSH.14.ATTRIBUTES "Item CDATA #FIXED '14'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Continuation Pointer'
Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.14 %MSH.14.ATTRIBUTES; >
<!ENTITY % MSH.15.CONTENT "%ID;">
<!ELEMENT MSH.15 %MSH.15.CONTENT;>
<!ENTITY % MSH.15.ATTRIBUTES "Item CDATA #FIXED '15'
```

## FIG. 25F

Table CDATA #FIXED '155'  
LongName CDATA #FIXED 'Accept Acknowledgment Type'  
Type CDATA #FIXED 'ID'">  
<!ATTLIST MSH.15 %MSH.15.ATTRIBUTES; >  
<!ENTITY % MSH.16.CONTENT "%ID;">  
<!ELEMENT MSH.16 %MSH.16.CONTENT;>  
<!ENTITY % MSH.16.ATTRIBUTES "Item CDATA #FIXED '16'  
Table CDATA #FIXED '155'  
LongName CDATA #FIXED 'Application Acknowledgment Type'  
Type CDATA #FIXED 'ID'">  
<!ATTLIST MSH.16 %MSH.16.ATTRIBUTES; >  
<!-- PID Field declarations -->  
<!ENTITY % PID.3.CONTENT "%CX;">  
<!ELEMENT PID.3 %PID.3.CONTENT;>  
<!ENTITY % PID.3.ATTRIBUTES "Item CDATA #FIXED '106'  
Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Patient Identifier List'  
Type CDATA #FIXED 'CX'">  
<!ATTLIST PID.3 %PID.3.ATTRIBUTES; >  
<!ENTITY % PID.5.CONTENT "%XPN;">  
<!ELEMENT PID.5 %PID.5.CONTENT;>  
<!ENTITY % PID.5.ATTRIBUTES "Item CDATA #FIXED '108'  
Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Patient Name'  
Type CDATA #FIXED 'XPN'">  
<!ATTLIST PID.5 %PID.5.ATTRIBUTES; >  
<!ENTITY % PID.6.CONTENT "%XPN;">  
<!ELEMENT PID.6 %PID.6.CONTENT;>  
<!ENTITY % PID.6.ATTRIBUTES "Item CDATA #FIXED '109'  
Table CDATA #FIXED '0'

## FIG. 25G

```

LongName CDATA #FIXED 'Mother&apos;s Maiden Name'
Type CDATA #FIXED 'XPN'">
<!ATTLIST PID.6 %PID.6.ATTRIBUTES; >
<!ENTITY % PID.7.CONTENT "%TS;">
<!ELEMENT PID.7 %PID.7.CONTENT;>
<!ENTITY % PID.7.ATTRIBUTES "Item CDATA #FIXED '110'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Date/Time Of Birth'
Type CDATA #FIXED 'TS'">
<!ATTLIST PID.7 %PID.7.ATTRIBUTES; >
<!ENTITY % PID.8.CONTENT "%IS;">
<!ELEMENT PID.8 %PID.8.CONTENT;>
<!ENTITY % PID.8.ATTRIBUTES "Item CDATA #FIXED '111'
Table CDATA #FIXED '1'
LongName CDATA #FIXED 'Administrative Sex'
Type CDATA #FIXED 'IS'">
<!ATTLIST PID.8 %PID.8.ATTRIBUTES; >
<!ENTITY % PID.9.CONTENT "%XPN;">
<!ELEMENT PID.9 %PID.9.CONTENT;>
<!ENTITY % PID.9.ATTRIBUTES "Item CDATA #FIXED '112'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Patient Alias'
Type CDATA #FIXED 'XPN'">
<!ATTLIST PID.9 %PID.9.ATTRIBUTES; >
<!ENTITY % PID.10.CONTENT "%CE;">
<!ELEMENT PID.10 %PID.10.CONTENT;>
<!ENTITY % PID.10.ATTRIBUTES "Item CDATA #FIXED '113'
Table CDATA #FIXED '5'
LongName CDATA #FIXED 'Race'
Type CDATA #FIXED 'CE'">

```

## FIG. 25H

```
<!ATTLIST PID.10 %PID.10.ATTRIBUTES; >
<!ENTITY % PID.11.CONTENT "%XAD;">
<!ELEMENT PID.11 %PID.11.CONTENT;>
<!ENTITY % PID.11.ATTRIBUTES "Item CDATA #FIXED '114'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Patient Address'
Type CDATA #FIXED 'XAD'">
<!ATTLIST PID.11 %PID.11.ATTRIBUTES; >
<!ENTITY % PID.12.CONTENT "%IS;">
<!ELEMENT PID.12 %PID.12.CONTENT;>
<!ENTITY % PID.12.ATTRIBUTES "Item CDATA #FIXED '115'
Table CDATA #FIXED '289'
LongName CDATA #FIXED 'County Code'
Type CDATA #FIXED 'IS'">
<!ATTLIST PID.12 %PID.12.ATTRIBUTES; >
<!ENTITY % PID.13.CONTENT "%XTN;">
<!ELEMENT PID.13 %PID.13.CONTENT;>
<!ENTITY % PID.13.ATTRIBUTES "Item CDATA #FIXED '116'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Phone Number - Home'
Type CDATA #FIXED 'XTN'">
<!ATTLIST PID.13 %PID.13.ATTRIBUTES; >
<!ENTITY % PID.14.CONTENT "%XTN;">
<!ELEMENT PID.14 %PID.14.CONTENT;>
<!ENTITY % PID.14.ATTRIBUTES "Item CDATA #FIXED '117'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Phone Number - Business'
Type CDATA #FIXED 'XTN'">
<!ATTLIST PID.14 %PID.14.ATTRIBUTES; >
<!ENTITY % PID.16.CONTENT "%CE;">
```

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## FIG. 25I

```
<!ELEMENT PID.16 %PID.16.CONTENT;>
<!ENTITY % PID.16.ATTRIBUTES "Item CDATA #FIXED '119'
Table CDATA #FIXED '2'
LongName CDATA #FIXED 'Marital Status'
Type CDATA #FIXED 'CE'">
<!ATTLIST PID.16 %PID.16.ATTRIBUTES; >
<!ENTITY % PID.17.CONTENT "%CE;">
<!ELEMENT PID.17 %PID.17.CONTENT;>
<!ENTITY % PID.17.ATTRIBUTES "Item CDATA #FIXED '120'
Table CDATA #FIXED '6'
LongName CDATA #FIXED 'Religion'
Type CDATA #FIXED 'CE'">
<!ATTLIST PID.17 %PID.17.ATTRIBUTES; >
<!ENTITY % PID.19.CONTENT "%ST;">
<!ELEMENT PID.19 %PID.19.CONTENT;>
<!ENTITY % PID.19.ATTRIBUTES "Item CDATA #FIXED '122'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'SSN Number - Patient'
Type CDATA #FIXED 'ST'">
<!ATTLIST PID.19 %PID.19.ATTRIBUTES; >
<!ENTITY % PID.20.CONTENT "%DLN;">
<!ELEMENT PID.20 %PID.20.CONTENT;>
<!ENTITY % PID.20.ATTRIBUTES "Item CDATA #FIXED '123'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Driver's License Number - Patient'
Type CDATA #FIXED 'DLN'">
<!ATTLIST PID.20 %PID.20.ATTRIBUTES; >
<!ENTITY % PID.22.CONTENT "%CE;">
<!ELEMENT PID.22 %PID.22.CONTENT;>
<!ENTITY % PID.22.ATTRIBUTES "Item CDATA #FIXED '125'
```

## FIG. 25J

Table CDATA #FIXED '189'  
LongName CDATA #FIXED 'Ethnic Group'  
Type CDATA #FIXED 'CE'">  
<!ATTLIST PID.22 %PID.22.ATTRIBUTES; >  
<!ENTITY % PID.23.CONTENT "%ST;">  
<!ELEMENT PID.23 %PID.23.CONTENT;>  
<!ENTITY % PID.23.ATTRIBUTES "Item CDATA #FIXED '126'  
Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Birth Place'  
Type CDATA #FIXED 'ST'">  
<!ATTLIST PID.23 %PID.23.ATTRIBUTES; >  
<!ENTITY % PID.28.CONTENT "%CE;">  
<!ELEMENT PID.28 %PID.28.CONTENT;>  
<!ENTITY % PID.28.ATTRIBUTES "Item CDATA #FIXED '739'  
Table CDATA #FIXED '212'  
LongName CDATA #FIXED 'Nationality'  
Type CDATA #FIXED 'CE'">  
<!ATTLIST PID.28 %PID.28.ATTRIBUTES; >

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## FIG. 26A

```
<!-- Include HL7 Version 2.3.1 datatypes specification -->
<!ENTITY % HL7V231-datatypes PUBLIC "-//HL7//DTD HL7 V2.3.1 datatype
definitions//EN" "datatypes.dtd">
%HL7V231-datatypes;
<!-- Message declaration -->
<!ENTITY % ADT_A29.CONTENT " (MSH,EVN,PID) ">
<!ELEMENT ADT_A29 %ADT_A29.CONTENT;>
<!-- Segment declarations -->
<!ENTITY % EVN.CONTENT " (EVN.1?,EVN.2,EVN.4?,EVN.7?)">
<!ELEMENT EVN %EVN.CONTENT;>
<!ENTITY % MSH.CONTENT "MSH.1,MSH.2,MSH.3?,MSH.4?,MSH.5?,
MSH.6?,MSH.7,MSH.8?,MSH.9,MSH.10,MSH.11,MSH.12,MSH.13?,
MSH.14?,MSH.15?,MSH.16?">
<!ELEMENT MSH %MSH.CONTENT;>
<!ENTITY % PID.CONTENT " (PID.3+, PID.5+)">
<!ELEMENT PID %PID.CONTENT;>
<!-- Field declarations -->
<!-- EVN field declarations -->
<!ELEMENT EVN.1 %EVN.1.CONTENT;>
<!ENTITY % EVN.1.ATTRIBUTES "Item CDATA #FIXED '99'
Table CDATA #FIXED '3'
LongName CDATA #FIXED 'Event Type Code'
Type CDATA #FIXED 'ID'">
<!ATTLIST EVN.1 %EVN.1.ATTRIBUTES; >
<!ENTITY % EVN.2.CONTENT "%ST;">
<!ELEMENT EVN.2 %EVN.2.CONTENT;>
<!ENTITY % EVN.2.ATTRIBUTES "Item CDATA #FIXED '100'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Recorded Date/Time'
Type CDATA #FIXED 'TS'">
<!ATTLIST EVN.2 %EVN.2.ATTRIBUTES; >
<!ENTITY %EVN.4.CONTENT "%IS;">
```

## FIG. 26B

```
<!ELEMENT EVN.4 %EVN.4.CONTENT;>
<!ENTITY % EVN. 4.ATTRIBUTES "Item CDATA #FIXED '102'
    Table CDATA #FIXED '62'
    LongName CDATA #FIXED 'Event Reason Code'
    Type CDATA #FIXED 'IS'">
<!ATTLIST EVN.4 %EVN.4.ATTRIBUTES; >
<!ENTITY % EVN.7.CONTENT "%HD;">
<!ELEMENT EVN.7 %EVN.7.CONTENT;>
<!ENTITY % EVN. 7.ATTRIBUTES "Item CDATA #FIXED '1534'
    Table CDATA #FIXED '0'
    LongName CDATA #FIXED 'Event Facility'
    Type CDATA #FIXED 'HD'">
<!ATTLIST EVN.7 %EVN.7.ATTRIBUTES; >
<!-- MSH field declarations -->
<!ENTITY %MSH.1.CONTENT "%ST;">
<!ELEMENT MSH.1 %MSH.1.CONTENT;>
<!ENTITY % MSH. 1.ATTRIBUTES "Item CDATA #FIXED '1'
    Table CDATA #FIXED '0'
    LongName CDATA #FIXED 'Field Separator'
    Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.1 %MSH.1.ATTRIBUTES; >
<!ENTITY % MSH.2.CONTENT "%ST;">
<!ELEMENT MSH.2 %MSH.2.CONTENT;>
<!ENTITY % MSH.2.ATTRIBUTES "Item CDATA #FIXED '2'
    Table CDATA #FIXED '0'
    LongName CDATA #FIXED 'Encoding Characters'
    Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.2 %MSH.2.ATTRIBUTES; >
<!ENTITY % MSH.3.CONTENT "%HD;">
<!ELEMENT MSH.3 %MSH.3.CONTENT;>
<!ENTITY % MSH.3.ATTRIBUTES "Item CDATA #FIXED '3'
```

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## FIG. 26C

Table CDATA #FIXED '361'  
LongName CDATA #FIXED 'Sending Application'  
Type CDATA #FIXED 'HD'">  
<!ATTLIST MSH.3 %MSH.3.ATTRIBUTES; >  
<!ENTITY % MSH.4.CONTENT "%HD;">  
<!ELEMENT MSH.4 %MSH.4.CONTENT;>  
<!ENTITY % MSH.4.ATTRIBUTES "Item CDATA #FIXED '4'  
Table CDATA #FIXED '362'  
LongName CDATA #FIXED 'Sending Facility'  
Type CDATA #FIXED 'HD'">  
<!ATTLIST MSH.4 %MSH.4.ATTRIBUTES; >  
<!ENTITY % MSH.5.CONTENT "%HD;">  
<!ELEMENT MSH.5 %MSH.5.CONTENT;>  
<!ENTITY % MSH.5.ATTRIBUTES "Item CDATA #FIXED '5'  
Table CDATA #FIXED '361'  
LongName CDATA #FIXED 'Receiving Application'  
Type CDATA #FIXED 'HD'">  
<!ATTLIST MSH.5 %MSH.5.ATTRIBUTES; >  
<!ENTITY % MSH.6.CONTENT "%HD;">  
<!ELEMENT MSH.6 %MSH.6.CONTENT;>  
<!ENTITY % MSH.6.ATTRIBUTES "Item CDATA #FIXED '6'  
Table CDATA #FIXED '362'  
LongName CDATA #FIXED 'Receiving Facility'  
Type CDATA #FIXED 'HD'">  
<!ATTLIST MSH.6 %MSH.6.ATTRIBUTES; >  
<!ENTITY % MSH.7.CONTENT "%TS;">  
<!ELEMENT MSH.7 %MSH.7.CONTENT;>  
<!ENTITY % MSH.7.ATTRIBUTES "Item CDATA #FIXED '7'  
Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Date/Time Of Message'  
Type CDATA #FIXED 'TS'">

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## FIG. 26D

```
<!ATTLIST MSH.7 %MSH.7.ATTRIBUTES; >
<!ENTITY % MSH.8.CONTENT "%ST;">
<!ELEMENT MSH.8 %MSH.8.CONTENT;>
<!ENTITY % MSH.8.ATTRIBUTES "Item CDATA #FIXED '8'
    Table CDATA #FIXED '0'
    LongName CDATA #FIXED 'Security'
    Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.8 %MSH.8.ATTRIBUTES; >
<!ENTITY % MSH.9.CONTENT "%CM_MSG_TYPE;">
<!ELEMENT MSH.9 %MSH.9.CONTENT;>
<!ENTITY % MSH.9.ATTRIBUTES "Item CDATA #FIXED '9'
    Table CDATA #FIXED '76'
    LongName CDATA #FIXED 'Message Type'
    Type CDATA #FIXED 'CM_MSG_TYPE'">
<!ATTLIST MSH.9 %MSH.9.ATTRIBUTES; >
<!ENTITY % MSH.10.CONTENT "%ST;">
<!ELEMENT MSH.10 %MSH.10.CONTENT;>
<!ENTITY % MSH.10.ATTRIBUTES "Item CDATA #FIXED '10'
    Table CDATA #FIXED '0'
    LongName CDATA #FIXED 'Message Control ID'
    Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.10 %MSH.10.ATTRIBUTES; >
<!ENTITY % MSH.11.CONTENT "%PT;">
<!ELEMENT MSH.11 %MSH.11.CONTENT;>
<!ENTITY % MSH.11.ATTRIBUTES "Item CDATA #FIXED '11'
    Table CDATA #FIXED '0'
    LongName CDATA #FIXED 'Processing ID'
    Type CDATA #FIXED 'PT'">
<!ATTLIST MSH.11 %MSH.11.ATTRIBUTES; >
<!ENTITY % MSH.12.CONTENT "%VID;">
<!ELEMENT MSH.12 %MSH.12.CONTENT;>
<!ENTITY % MSH.12.ATTRIBUTES "Item CDATA #FIXED '12'
```

## FIG. 26E

```
Table CDATA #FIXED '104'
LongName CDATA #FIXED 'Version ID'
Type CDATA #FIXED 'VID'">
<!ATTLIST MSH.12 %MSH.12.ATTRIBUTES; >
<!ENTITY % MSH.13.CONTENT "%NM;">
<!ELEMENT MSH.13 %MSH.13.CONTENT;>
<!ENTITY % MSH.13.ATTRIBUTES "Item CDATA #FIXED '13'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Sequence Number'
Type CDATA #FIXED 'NM'">
<!ATTLIST MSH.13 %MSH.13.ATTRIBUTES; >
<!ENTITY % MSH.14.CONTENT "%ST;">
<!ELEMENT MSH.14 %MSH.14.CONTENT;>
<!ENTITY % MSH.14.ATTRIBUTES "Item CDATA #FIXED '14'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Continuation Pointer'
Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.14 %MSH.14.ATTRIBUTES; >
<!ENTITY % MSH.15.CONTENT "%ID;">
<!ELEMENT MSH.15 %MSH.15.CONTENT;>
<!ENTITY % MSH.15.ATTRIBUTES "Item CDATA #FIXED '15'
Table CDATA #FIXED '155'
LongName CDATA #FIXED 'Accept Acknowledgment Type'
Type CDATA #FIXED 'ID'">
<!ATTLIST MSH.15 %MSH.15.ATTRIBUTES; >
<!ENTITY % MSH.16.CONTENT "%ID;">
<!ELEMENT MSH.16 %MSH.16.CONTENT;>
<!ENTITY % MSH.16.ATTRIBUTES "Item CDATA #FIXED '16'
Table CDATA #FIXED '155'
LongName CDATA #FIXED 'Application Acknowledgment Type'
Type CDATA #FIXED 'ID'">
```

## FIG. 26F

```
<!ATTLIST MSH.16 %MSH.16.ATTRIBUTES; >
<!-- PID Field declarations -->
<!ENTITY % PID.3.CONTENT "%CX;">
<!ELEMENT PID.3 %PID.3.CONTENT;>
<!ENTITY % PID.3.ATTRIBUTES "Item CDATA #FIXED '106'
    Table CDATA #FIXED '0'
    LongName CDATA #FIXED 'Patient Identifier List'
    Type CDATA #FIXED 'CX'">
<!ATTLIST PID.3 %PID.3.ATTRIBUTES; >
<!ENTITY % PID.5.CONTENT "%XPN;">
<!ELEMENT PID.5 %PID.5.CONTENT;>
<!ENTITY % PID.5.ATTRIBUTES "Item CDATA #FIXED '108'
    Table CDATA #FIXED '0'
    LongName CDATA #FIXED 'Patient Name'
    Type CDATA #FIXED 'XPN'">
<!ATTLIST PID.5 %PID.5.ATTRIBUTES; >
```

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## FIG. 27A

```
<!-- Include HL7 Version 2.3.1 datatypes specification -->
<!ENTITY % HL7V231-datatypes PUBLIC "-//HL7//DTD HL7 V2.3.1 datatype
definitions//EN" "datatypes.dtd">
%HL7V231-datatypes;
<!-- Message declaration -->
<!ENTITY % ADT_A47.CONTENT "(MSH,EVN,PID,MRG)">
<!ELEMENT ADT_A47 %ADT_A47.CONTENT;>
<!-- Segment declarations -->
<!ENTITY % EVN.CONTENT "(EVN.1?,EVN.2,EVN.4?,EVN.7?)">
<!ELEMENT EVN %EVN.CONTENT;>
<!ENTITY % MSH.CONTENT "(MSH.1,MSH.2,MSH.3?,MSH.4?,MSH.5?,
MSH.6?,MSH.7,MSH.8?,MSH.9,MSH.10,MSH.11,MSH.12,MSH.13?,
MSH.14?,MSH.15?,MSH.16?)">
<!ELEMENT MSH %MSH.CONTENT;>
<!ENTITY % PID.CONTENT "(PID.3+,PID.5+,PID.6*,PID.7?,PID.8?,PID.9*,
PID.10*,PID.11*,PID.12?,PID.13*,PID.14*,PID.16?,PID.17?,PID.19?,PID.20?,
PID.22*,PID.23?,PID.28?)">
<!ELEMENT PID %PID.CONTENT;>
<!ENTITY % MRG.CONTENT "(MRG.1+)">
<!ELEMENT MRG %MRG.CONTENT;>
<!-- Field declarations -->
<!-- EVN Field declarations -->
<!ELEMENT EVN.1 %EVN.1.CONTENT;>
<!ENTITY % EVN.1.ATTRIBUTES "Item CDATA #FIXED '99'
Table CDATA #FIXED '3'
LongName CDATA #FIXED 'Event Type Code'
Type CDATA #FIXED 'ID'">
<!ATTLIST EVN.1 %EVN.1.ATTRIBUTES; >
<!ENTITY % EVN.2.CONTENT "%TS;">
<!ELEMENT EVN.2 %EVN.2.CONTENT;>
<!ENTITY % EVN.2.ATTRIBUTES "Item CDATA #FIXED '100'
```

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## FIG. 27B

Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Recorded Date/Time'  
Type CDATA #FIXED 'TS'">  
<!ATTLIST EVN.2 %EVN.2.ATTRIBUTES; >  
<!ENTITY % EVN.4.CONTENT "%IS;">  
<!ELEMENT EVN.4 %EVN.4.CONTENT;>  
<!ENTITY % EVN.4.ATTRIBUTES "Item CDATA #FIXED '102'  
Table CDATA #FIXED '62'  
LongName CDATA #FIXED 'Event Reason Code'  
Type CDATA #FIXED 'IS'">  
<!ATTLIST EVN.4 %EVN.4.ATTRIBUTES; >  
<!ENTITY % EVN.7.CONTENT "%HD;">  
<!ELEMENT EVN.7 %EVN.7.CONTENT;>  
<!ENTITY % EVN.7.ATTRIBUTES "Item CDATA #FIXED '1534'  
Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Event Facility'  
Type CDATA #FIXED 'HD'">  
<!ATTLIST EVN.7 %EVN.7.ATTRIBUTES; >  
<!-- MRG field declarations -->  
<!ENTITY % MRG.1.CONTENT "%CX;">  
<!ELEMENT MRG.3 %MRG.1.CONTENT;>  
<!ENTITY % MRG.1.ATTRIBUTES "Item CDATA #FIXED '211'  
Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Prior Patient Identifier List'  
Type CDATA #FIXED 'CX'">  
<!ATTLIST MRG.1 %MGR.1.ATTRIBUTES; >  
<!-- MSH field declarations -->  
<!ENTITY % MSH.1.CONTENT "%ST;">  
<!ELEMENT MSH.1 %MSH.1.CONTENT;>  
<!ENTITY % MSH.1.ATTRIBUTES "Item CDATA #FIXED '1'

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## FIG. 27C

Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Field Separator'  
Type CDATA #FIXED 'ST'">  
<!ATTLIST MSH.1 %MSH.1.ATTRIBUTES; >  
<!ENTITY % MSH.2.CONTENT "%ST;">  
<!ELEMENT MSH.2 %MSH.2.CONTENT;>  
<!ENTITY % MSH.2.ATTRIBUTES "Item CDATA #FIXED '2'  
Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Encoding Characters'  
Type CDATA #FIXED 'ST'">  
<!ATTLIST MSH.2 %MSH.2.ATTRIBUTES; >  
<!ENTITY % MSH.3.CONTENT "%HD;">  
<!ELEMENT MSH.3 %MSH.3.CONTENT;>  
<!ENTITY % MSH.3.ATTRIBUTES "Item CDATA #FIXED '3'  
Table CDATA #FIXED '361'  
LongName CDATA #FIXED 'Sending Application'  
Type CDATA #FIXED 'HD'">  
<!ATTLIST MSH.3 %MSH.3.ATTRIBUTES; >  
<!ENTITY % MSH.4.CONTENT "%HD;">  
<!ELEMENT MSH.4 %MSH.4.CONTENT;>  
<!ENTITY % MSH.4.ATTRIBUTES "Item CDATA #FIXED '4'  
Table CDATA #FIXED '362'  
LongName CDATA #FIXED 'Sending Facility'  
Type CDATA #FIXED 'HD'">  
<!ATTLIST MSH.4 %MSH.4.ATTRIBUTES; >  
<!ENTITY % MSH.5.CONTENT "%HD;">  
<!ELEMENT MSH.5 %MSH.5.CONTENT;>  
<!ENTITY % MSH.5.ATTRIBUTES "Item CDATA #FIXED '5'  
Table CDATA #FIXED '361'  
LongName CDATA #FIXED 'Receiving Application'  
Type CDATA #FIXED 'HD'">

## FIG. 27D

```
<!ATTLIST MSH.5 %MSH.5.ATTRIBUTES; >
<!ENTITY % MSH.6.CONTENT "%HD;">
<!ELEMENT MSH.6 %MSH.6.CONTENT;>
<!ENTITY % MSH.6.ATTRIBUTES "Item CDATA #FIXED '6'
    Table CDATA #FIXED '362'
    LongName CDATA #FIXED 'Receiving Facility'
    Type CDATA #FIXED 'HD'">
<!ATTLIST MSH.6 %MSH.6.ATTRIBUTES; >
<!ENTITY % MSH.7.CONTENT "%TS;">
<!ELEMENT MSH.7 %MSH.7.CONTENT;>
<!ENTITY % MSH.7.ATTRIBUTES "Item CDATA #FIXED '7'
    Table CDATA #FIXED '0'
    LongName CDATA #FIXED 'Date/Time Of Message'
    Type CDATA #FIXED 'TS'">
<!ATTLIST MSH.7 %MSH.7.ATTRIBUTES; >
<!ENTITY % MSH.8.CONTENT "%ST;">
<!ELEMENT MSH.8 %MSH.8.CONTENT;>
<!ENTITY % MSH.8.ATTRIBUTES "Item CDATA #FIXED '8'
    Table CDATA #FIXED '0'
    LongName CDATA #FIXED 'Security'
    Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.8 %MSH.8.ATTRIBUTES; >
<!ENTITY % MSH.9.CONTENT "%CM_MSG_TYPE;">
<!ELEMENT MSH.9 %MSH.9.CONTENT;>
<!ENTITY % MSH.9.ATTRIBUTES "Item CDATA #FIXED '9'
    Table CDATA #FIXED '76'
    LongName CDATA #FIXED 'Message Type'
    Type CDATA #FIXED 'CM_MSG_TYPE'">
<!ATTLIST MSH.9 %MSH.9.ATTRIBUTES; >
<!ENTITY % MSH.10.CONTENT "%ST;">
<!ELEMENT MSH.10 %MSH.10.CONTENT;>
<!ENTITY % MSH.10.ATTRIBUTES "Item CDATA #FIXED '10'
```

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## FIG. 27E

```
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Message Control ID'
Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.10 %MSH.10.ATTRIBUTES; >
<!ENTITY % MSH.11.CONTENT "%PT;">
<!ELEMENT MSH.11 %MSH.11.CONTENT;>
<!ENTITY % MSH.11.ATTRIBUTES "Item CDATA #FIXED '11'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Processing ID'
Type CDATA #FIXED 'PT'">
<!ATTLIST MSH.11 %MSH.11.ATTRIBUTES; >
<!ENTITY % MSH.12.CONTENT "%VID;">
<!ELEMENT MSH.12 %MSH.12.CONTENT;>
<!ENTITY % MSH.12.ATTRIBUTES "Item CDATA #FIXED '12'
Table CDATA #FIXED '104'
LongName CDATA #FIXED 'Version ID'
Type CDATA #FIXED 'VID'">
<!ATTLIST MSH.12 %MSH.12.ATTRIBUTES; >
<!ENTITY % MSH.13.CONTENT "%NM;">
<!ELEMENT MSH.13 %MSH.13.CONTENT;>
<!ENTITY % MSH.13.ATTRIBUTES "Item CDATA #FIXED '13'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Sequence Number'
Type CDATA #FIXED 'NM'">
<!ATTLIST MSH.13 %MSH.13.ATTRIBUTES; >
<!ENTITY % MSH.14.CONTENT "%ST;">
<!ELEMENT MSH.14 %MSH.14.CONTENT;>
<!ENTITY % MSH.14.ATTRIBUTES "Item CDATA #FIXED '14'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Continuation Pointer'
Type CDATA #FIXED 'ST'">
<!ATTLIST MSH.14 %MSH.14.ATTRIBUTES; >
```

FIG. 27F

```
<!ENTITY % MSH.15.CONTENT "%ID;">
<!ELEMENT MSH.15 %MSH.15.CONTENT;>
<!ENTITY % MSH.15.ATTRIBUTES "Item CDATA #FIXED '15'
  Table CDATA #FIXED '155'
  LongName CDATA #FIXED 'Accept Acknowledgment Type'
  Type CDATA #FIXED 'ID'">
<!ATTLIST MSH.15 %MSH.15.ATTRIBUTES; >
<!ENTITY % MSH.16.CONTENT "%ID;">
<!ELEMENT MSH.16 %MSH.16.CONTENT;>
<!ENTITY % MSH.16.ATTRIBUTES "Item CDATA #FIXED '16'
  Table CDATA #FIXED '155'
  LongName CDATA #FIXED 'Application Acknowledgment Type'
  Type CDATA #FIXED 'ID'">
<!ATTLIST MSH.16 %MSH.16.ATTRIBUTES; >
<!-- PID Field declarations -->
<!ENTITY % PID.3.CONTENT "%CX;">
<!ELEMENT PID.3 %PID.3.CONTENT;>
<!ENTITY % PID.3.ATTRIBUTES "Item CDATA #FIXED '106'
  Table CDATA #FIXED '0'
  LongName CDATA #FIXED 'Patient Identifier List'
  Type CDATA #FIXED 'CX'">
<!ATTLIST PID.3 %PID.3.ATTRIBUTES; >
<!ENTITY % PID.5.CONTENT "%XPN;">
<!ELEMENT PID.5 %PID.5.CONTENT;>
<!ENTITY % PID.5.ATTRIBUTES "Item CDATA #FIXED '108'
  Table CDATA #FIXED '0'
  LongName CDATA #FIXED 'Patient Name'
  Type CDATA #FIXED 'XPN'">
<!ATTLIST PID.5 %PID.5.ATTRIBUTES; >
<!ENTITY % PID.6.CONTENT "%XPN;">
<!ELEMENT PID.6 %PID.6.CONTENT;>
<!ENTITY % PID.6.ATTRIBUTES "Item CDATA #FIXED '109'
```

**FIG. 27G**

```

Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Mother&apos;s Maiden Name'
Type CDATA #FIXED 'XPN'">
<!ATTLIST PID.6 %PID.6.ATTRIBUTES; >
<!ENTITY % PID.7.CONTENT "%TS;">
<!ELEMENT PID.7 %PID.7.CONTENT;>
<!ENTITY % PID.7.ATTRIBUTES "Item CDATA #FIXED '110'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Date/Time Of Birth'
Type CDATA #FIXED 'TS'">
<!ATTLIST PID.7 %PID.7.ATTRIBUTES; >
<!ENTITY % PID.8.CONTENT "%IS;">
<!ELEMENT PID.8 %PID.8.CONTENT;>
<!ENTITY % PID.8.ATTRIBUTES "Item CDATA #FIXED '111'
Table CDATA #FIXED '1'
LongName CDATA #FIXED 'Administrative Sex'
Type CDATA #FIXED 'IS'">
<!ATTLIST PID.8 %PID.8.ATTRIBUTES; >
<!ENTITY % PID.9.CONTENT "%XPN;">
<!ELEMENT PID.9 %PID.9.CONTENT;>
<!ENTITY % PID.9.ATTRIBUTES "Item CDATA #FIXED '112'
Table CDATA #FIXED '0'
LongName CDATA #FIXED 'Patient Alias'
Type CDATA #FIXED 'XPN'">
<!ATTLIST PID.9 %PID.9.ATTRIBUTES; >
<!ENTITY % PID.10.CONTENT "%CE;">
<!ELEMENT PID.10 %PID.10.CONTENT;>
<!ENTITY % PID.10.ATTRIBUTES "Item CDATA #FIXED '113'
Table CDATA #FIXED '5'
LongName CDATA #FIXED 'Race'
Type CDATA #FIXED 'CE'">

```

## FIG. 27H

```
<!ATTLIST PID.10 %PID.10.ATTRIBUTES; >
<!ENTITY % PID.11.CONTENT "%XAD;">
<!ELEMENT PID.11 %PID.11.CONTENT;>
<!ENTITY % PID.11.ATTRIBUTES "Item CDATA #FIXED '114'
  Table CDATA #FIXED '0'
  LongName CDATA #FIXED 'Patient Address'
  Type CDATA #FIXED 'XAD'">
<!ATTLIST PID.11 %PID.11.ATTRIBUTES; >
<!ENTITY % PID.12.CONTENT "%IS;">
<!ELEMENT PID.12 %PID.12.CONTENT;>
<!ENTITY % PID.12.ATTRIBUTES "Item CDATA #FIXED '115'
  Table CDATA #FIXED '289'
  LongName CDATA #FIXED 'County Code'
  Type CDATA #FIXED 'IS'">
<!ATTLIST PID.12 %PID.12.ATTRIBUTES; >
<!ENTITY % PID.13.CONTENT "%XTN;">
<!ELEMENT PID.13 %PID.13.CONTENT;>
<!ENTITY % PID.13.ATTRIBUTES "Item CDATA #FIXED '116'
  Table CDATA #FIXED '0'
  LongName CDATA #FIXED 'Phone Number - Home'
  Type CDATA #FIXED 'XTN'">
<!ATTLIST PID.13 %PID.13.ATTRIBUTES; >
<!ENTITY % PID.14.CONTENT "%XTN;">
<!ELEMENT PID.14 %PID.14.CONTENT;>
<!ENTITY % PID.14.ATTRIBUTES "Item CDATA #FIXED '117'
  Table CDATA #FIXED '0'
  LongName CDATA #FIXED 'Phone Number - Business'
  Type CDATA #FIXED 'XTN'">
<!ATTLIST PID.14 %PID.14.ATTRIBUTES; >
<!ENTITY % PID.16.CONTENT "%CE;">
<!ELEMENT PID.16 %PID.16.CONTENT;>
<!ENTITY % PID.16.ATTRIBUTES "Item CDATA #FIXED '119'
```

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## FIG. 271

Table CDATA #FIXED '2'  
LongName CDATA #FIXED 'Marital Status'  
Type CDATA #FIXED 'CE'">  
<!ATTLIST PID.16 %PID.16.ATTRIBUTES; >  
<!ENTITY % PID.17.CONTENT "%CE;">  
<!ELEMENT PID.17 %PID.17.CONTENT;>  
<!ENTITY % PID.17.ATTRIBUTES "Item CDATA #FIXED '120'  
Table CDATA #FIXED '6'  
LongName CDATA #FIXED 'Religion'  
Type CDATA #FIXED 'CE'">  
<!ATTLIST PID.17 %PID.17.ATTRIBUTES; >  
<!ENTITY % PID.19.CONTENT "%ST;">  
<!ELEMENT PID.19 %PID.19.CONTENT;>  
<!ENTITY % PID.19.ATTRIBUTES "Item CDATA #FIXED '122'  
Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'SSN Number - Patient'  
Type CDATA #FIXED 'ST'">  
<!ATTLIST PID.19 %PID.19.ATTRIBUTES; >  
<!ENTITY % PID.20.CONTENT "%DLN;">  
<!ELEMENT PID.20 %PID.20.CONTENT;>  
<!ENTITY % PID.20.ATTRIBUTES "Item CDATA #FIXED '123'  
Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Driver&apos;s License Number - Patient'  
Type CDATA #FIXED 'DLN'">  
<!ATTLIST PID.20 %PID.20.ATTRIBUTES; >  
<!ENTITY % PID.22.CONTENT "%CE;">  
<!ELEMENT PID.22 %PID.22.CONTENT;>  
<!ENTITY % PID.22.ATTRIBUTES "Item CDATA #FIXED '125'  
Table CDATA #FIXED '189'  
LongName CDATA #FIXED 'Ethnic Group'  
Type CDATA #FIXED 'CE'">  
<!ATTLIST PID.22 %PID.22.ATTRIBUTES; >

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## FIG. 27J

Table CDATA #FIXED '189'  
LongName CDATA #FIXED 'Ethnic Group'  
Type CDATA #FIXED 'CE'">  
<!ATTLIST PID.22 %PID.22.ATTRIBUTES; >  
<!ENTITY % PID.23.CONTENT "%ST;">  
<!ELEMENT PID.23 %PID.23.CONTENT;>  
<!ENTITY % PID.23.ATTRIBUTES "Item CDATA #FIXED '126'  
Table CDATA #FIXED '0'  
LongName CDATA #FIXED 'Birth Place'  
Type CDATA #FIXED 'ST'">  
<!ATTLIST PID.23 %PID.23.ATTRIBUTES; >  
<!ENTITY % PID.28.CONTENT "%CE;">  
<!ELEMENT PID.28 %PID.28.CONTENT;>  
<!ENTITY % PID.28.ATTRIBUTES "Item CDATA #FIXED '739'  
Table CDATA #FIXED '212'  
LongName CDATA #FIXED 'Nationality'  
Type CDATA #FIXED 'CE'">  
<!ATTLIST PID.28 %PID.28.ATTRIBUTES; >

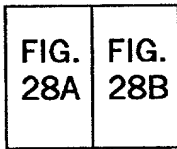


FIG. 28

FIG. 28A

Universal Person Object  
Transient Class Hierarchy

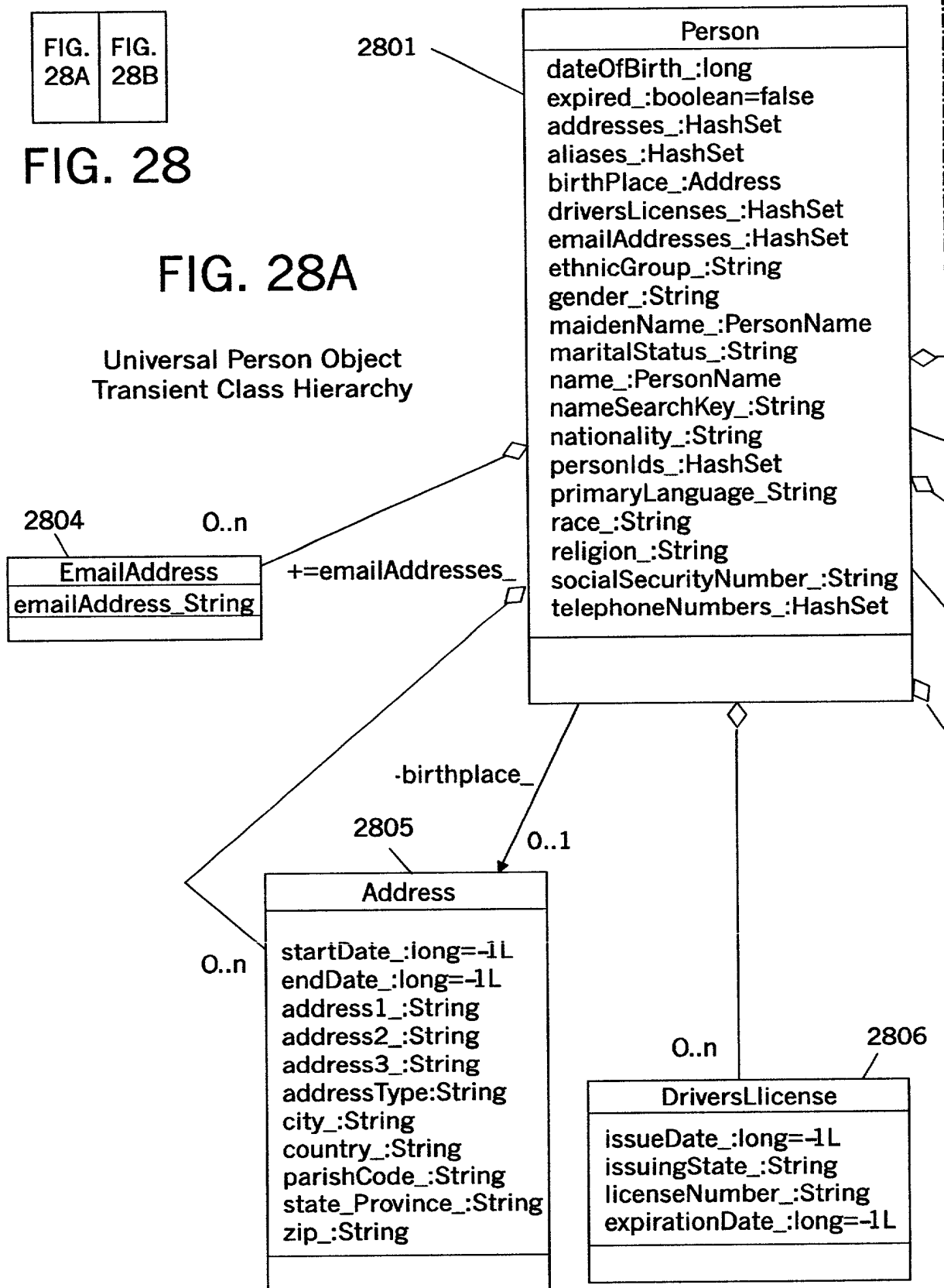
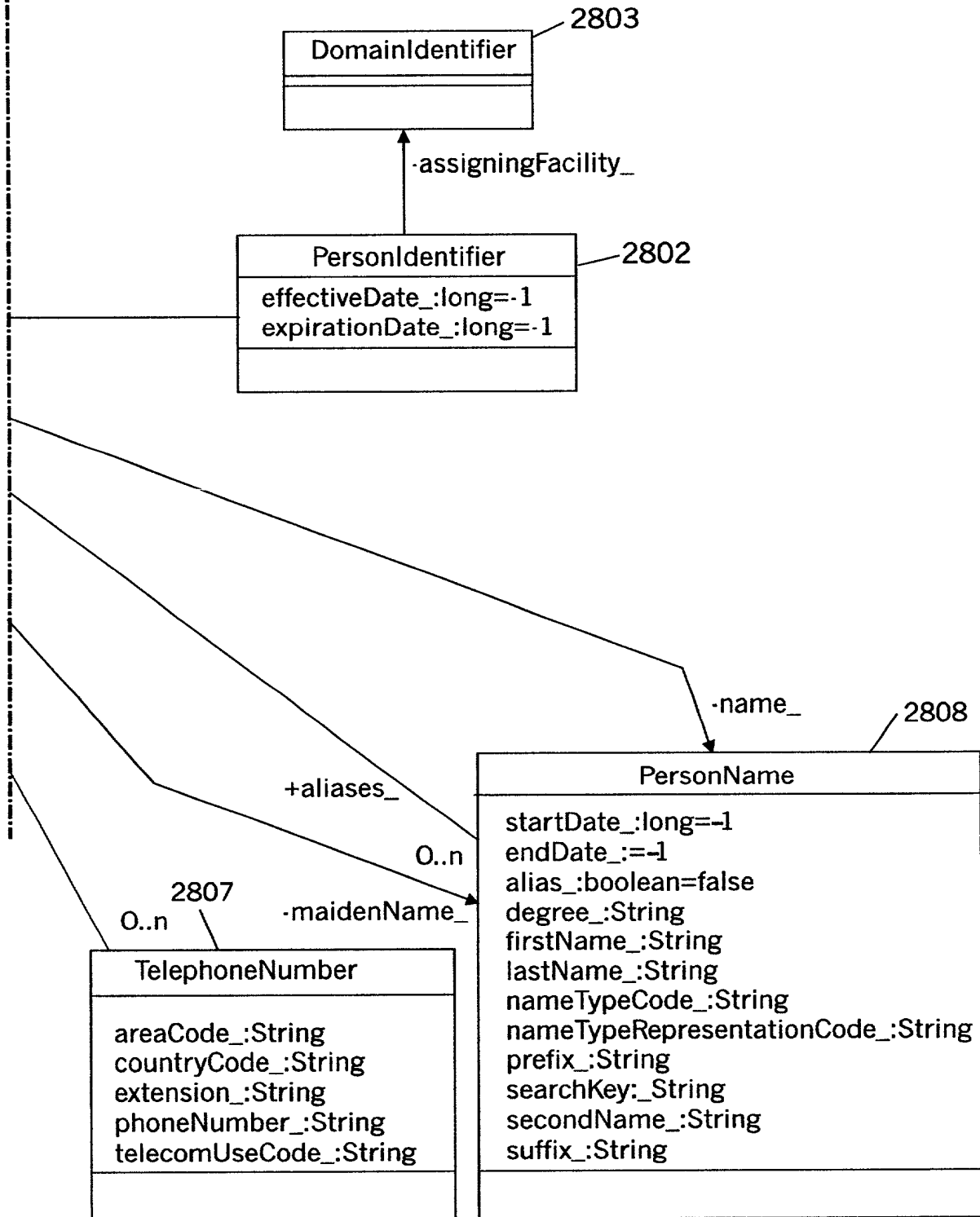


FIG. 28B



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FIG. 29

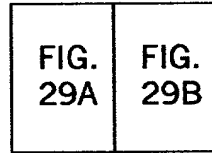


FIG. 29A

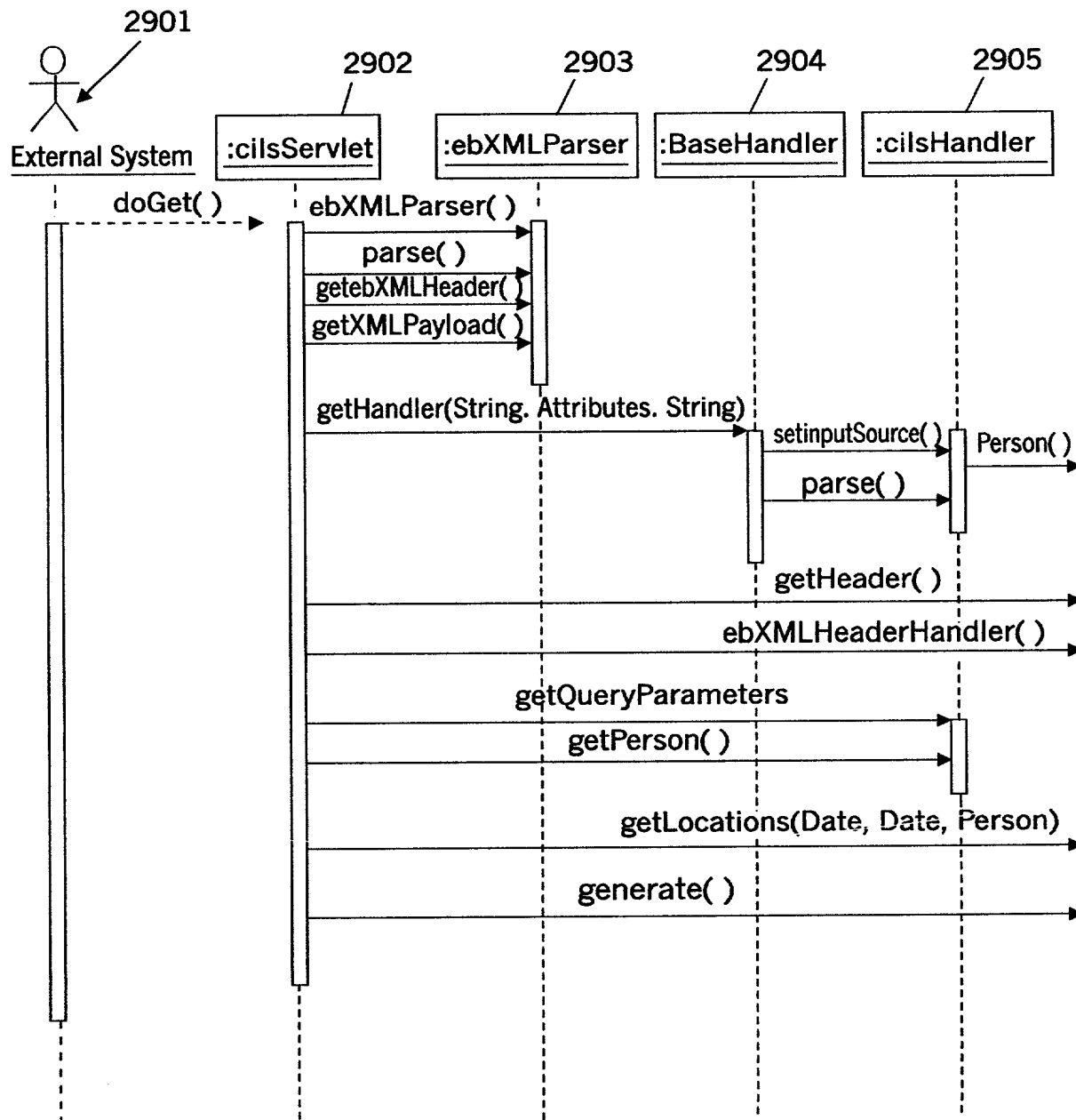
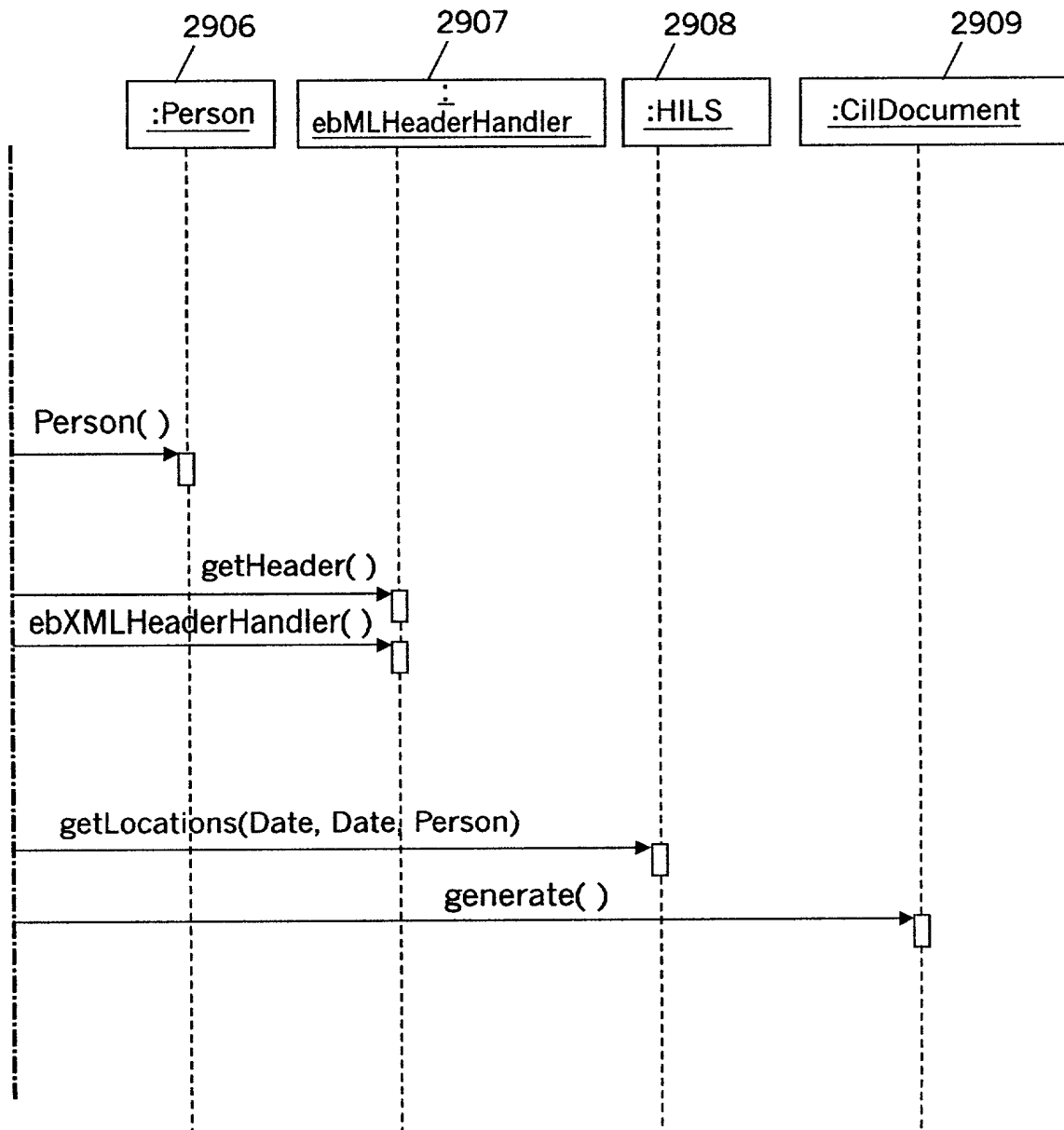


FIG. 29B



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FIG. 30

